

# **EPA Jacket 228-722**

## Material to be added to an e-Jacket/Jacket

Reg. No. 228-722

Decision # 489980

Description: label amendment

1. Placement within the e-Jacket/jacket:

- ☒ Default: (chronological, top = newest)  
☐ File Location: (eg. "before page 45 in .pdf")

2. ☒ Send to Data Extraction contractors this material:

- ☒ Newly stamped accepted label  
☐ Notification  
☐ New CSF  
☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: Lindsay Roe

Phone: 347-0506

Division: RD-FB

Date: 5-16-14

# Material Sent for Data Extraction

Reg. # 228-722

Description: \_\_\_\_\_

☐ Material(s) Sent to Data Extraction Contractors:

☐ New Stamped Label Dated \_\_\_\_\_

☒ Notification Dated 5/2/14

☐ New CSF(s) Dated \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Decision #: \_\_\_\_\_

☐ Other Action/Comments: \_\_\_\_\_  
\_\_\_\_\_

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: S. Hill

Phone: 347-8961 Division: RD

Date: 5/6/14

# Material Sent for Data Extraction

Reg. # 228-722

Description: \_\_\_\_\_

☐ Material(s) Sent to Data Extraction Contractors:

☐ New Stamped Label Dated \_\_\_\_\_

☒ Notification Dated 4/15/14

☐ New CSF(s) Dated \_\_\_\_\_

☐ Other: \_\_\_\_\_

☒ Decision #: 489512

☐ Other Action/Comments: \_\_\_\_\_  
\_\_\_\_\_

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Lindsay Roe

Phone: 347-0506 Division: RD-FB

Date: \_\_\_\_\_



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Danielle A. Larochelle  
Nufarm Americas Inc.,  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

**MAY 16 2014**

Subject: Label amendment for NUP-12103 FUNGICIDE  
Submission date: 3/11/2014 with a resubmission 4/15/2014  
Product Name: NUP-12103 FUNGICIDE  
EPA Reg. No.: 228-722  
EPA Decision Number: 489980

Dear Ms. Larochelle,

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable under FIFRA 3(c)(5).

The Agency acknowledges the addition of "AZURE MAX Agricultural Fungicide" as an alternate brand name to the primary brand name, "NUP-12103 Fungicide."

In addition, the Agency acknowledges the following changes made to the product label:

- Addition of alternate brand name
- "Made in \_\_\_\_\_" statement
- Trademark statements
- Revision of PPE section to include required glove category

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions, please contact Lindsay Roe by phone at (703) 347-0506 or via email at [roe.lindsay@epa.gov](mailto:roe.lindsay@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja Joyner".

Shaja Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

# NUP-12103 Fungicide

[ Alternate Brand Name: AZURE™ MAX Agricultural Fungicide ]

Broad spectrum fungicide for the control of plant diseases

## ACTIVE INGREDIENTS

Azoxystrobin\* ..... 13.7%

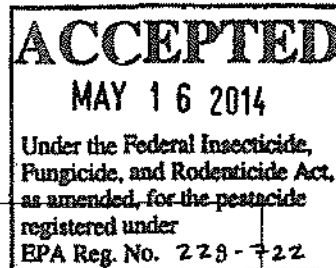
Propiconazole\* ..... 12.0%

OTHER INGREDIENTS: ..... 74.3%

TOTAL: ..... 100.0%

\*Contains 1.2 lb Azoxystrobin and 1.0 lb Propiconazole per Gallon

Contains petroleum distillates



**KEEP OUT OF REACH OF CHILDREN.**

## WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**SEE LABEL BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

EPA Reg. No. 228-722

EPA Est. No. \_\_\_\_\_

MANUFACTURED FOR  
NUFARM AMERICAS INC.  
11901 S. AUSTIN AVENUE  
ALSIP, IL 60803



MADE IN \_\_\_\_\_

NET CONTENTS: \_\_\_\_\_ Gal. ( \_\_\_\_\_ Liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

| <b>FIRST AID</b>  |  |
|---|--|
| <b>IF IN EYES</b>   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                        |
| <b>IF SWALLOWED</b>   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING</b>   | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF INHALED</b>   | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>                       |
| <b>NOTE TO PHYSICIAN</b>  |  |
| May pose an aspiration pneumonia hazard. Contains petroleum distillates.  |  |
| <b>HOTLINE NUMBER</b>   |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information. |  |

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING / AVISO**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category F on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as barrier laminate, nitrile rubber, butyl rubber, or viton.
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish and azoxystrobin is toxic to aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### GROUND WATER ADVISORY:

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### SURFACE WATER ADVISORY:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify State and/or Federal authorities and Nufarm immediately if you observe any adverse environmental effects due to use of this product.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL AND/OR ILLEGAL RESIDUES.**

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear

## USE PRECAUTIONS

Do not use in nurseries, greenhouses or landscape plantings.

## PRODUCT INFORMATION

This product is a broad spectrum, preventative fungicide with systemic and curative properties for the control of many important plant diseases. This product may also improve the yield and/or quality of crops.



These additional benefits are due to positive effects on plant physiology. The effects may vary according to factors such as the specific crop, crop hybrid, or environment. This product may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. Make all applications in accordance to the use directions on this label.

## USE INSTRUCTIONS

**Application:** Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

**Adjuvants:** For some uses on this label, a spreading/penetrating type adjuvant such as a non-ionic surfactant, crop oil concentrate, or blend may be added at the manufacturer's recommended rates. Adjuvants that contain some form of silicone can contribute to phytotoxicity. When an adjuvant is used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

**Crop Tolerance/Phytotoxicity:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity. Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury in barley, triticale and wheat.

**Efficacy:** Under conditions conducive to extended infection periods, use another registered fungicide for additional applications once the maximum allowable amount of this product has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, product performance may be reduced. When heavy infection pressure exists, when treating varieties highly susceptible to disease, or when environmental conditions are conducive to disease development, best results are obtained when using the higher rates and/or the shorter spray intervals allowed in the crop specific use directions on this label.

**Integrated Pest Management:** Incorporate this product into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices known to reduce the potential for disease development. The CROP SPECIFIC USE DIRECTIONS section of this label identifies specific IPM strategies for each crop. Consult your State Agricultural Experiment Station or Extension Service Specialist for additional IPM strategies established for your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

## RESISTANCE MANAGEMENT

This product contains a mixture of Group 3 (propiconazole) and Group 11 (azoxystrobin) fungicides and has two modes of action: 1) Group 3 - Demethylation inhibitor (DMI) of sterol biosynthesis which disrupts membrane synthesis; 2) Group 11 - Inhibitor of the Qo (quinone outside) site within the electron transport system which disrupts fungal respiration. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use this product in accordance with resistance management strategies established for the crop and use area. Consult your State Agricultural Experiment Station or Extension Service Specialist for resistance management strategies that complement those on this label. Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Nufarm encourages responsible resistance management practices to ensure effective long-term control of the fungal diseases on this label.

Follow crop specific recommendations that limit the total number of sprays on a crop and require rotation with fungicides from other resistance management groups. In situations requiring multiple sprays, develop season long spray programs for Group 11 QoI (quinone outside inhibiting) fungicides. For programs including the use of a QoI fungicide as a solo product, avoid making more than 1/3 (33%) of the total number of fungicide applications per season with the QoI containing product. For programs including tank mixtures or premixes of a QoI fungicide with mixing partners of a different mode of action, avoid making more than 1/2 (50%) of the total number of fungicide applications per season with the QoI containing product.

Do not alternate or tank mix this product with any fungicide to which resistance has already developed.

## ROTATIONAL CROP RESTRICTIONS

The following crops may be planted at the specified interval following application of this product.

| CROP  | PLANTBACK INTERVAL |
|---|--------------------|
| Bulb crops<br>Carrots<br>Celery (and other leaf petiole crops - subgroup 4B)<br>Cereals (wheat, barley, triticale)<br>Corn (field, seed, popcorn, and sweet)<br>Grasses grown for seed<br>Mint<br>Oats<br>Peanuts<br>Rice<br>Rye<br>Sorghum<br>Soybeans<br>Strawberries<br>Sugar beets<br>Wild rice | 0 Day              |
| Alfalfa (if propiconazole rate does not exceed 0.22 lb a.i./A per season)   | 75 Days            |
| Buckwheat<br>Millet   | 12 Months          |
| All other crops intended for food and feed  | 105 Days           |

## SPRAY DRIFT MANAGEMENT

To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**

### ATTENTION

This product is extremely phytotoxic to certain apple varieties.

**AVOID SPRAY DRIFT.** Extreme care must be used to prevent injury to apple trees and apple fruit.

**DO NOT** spray this product where spray drift may reach apple trees.

**DO NOT** spray when conditions favor drift beyond the area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Consult your State Agricultural Experiment Station or Extension Service Specialist for spray drift prevention guidelines in your area.

**DO NOT** spray apple trees with spray equipment previously used to apply this product. Even trace amounts of product may cause unacceptable phytotoxicity to certain apple and crabapple varieties.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

## MIXING AND APPLICATION INSTRUCTIONS

### Spray Equipment

All types of spray equipment commonly used for ground and aerial applications may be used with this product. Ensure proper adjustment and calibration of spray equipment to obtain good canopy penetration and coverage which is essential for good disease control.

### **Nozzles**

- Equip sprayer with nozzles that provide accurate and uniform application.
- Use nozzles that are the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- Use screens 16-mesh or coarser on the suction side of the pump.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Follow nozzle manufacturer use guidelines.

### **Pump**

- Use a pump with capacity to:
  - a) Maintain 35 to 40 psi at nozzles.
  - b) Provide sufficient agitation in tank to keep mixture in suspension (use a jet agitator or liquid sparge tube for agitation).

For more information on spray equipment and calibration, consult sprayer manufacturer. For specific local directions and spray schedules, consult your State Agricultural Experiment Station or Extension Service Specialist for advice.

### **Spray Solution Preparation**

- Prepare only the amount of spray solution required for immediate use. Do not allow spray mixture to stand overnight or for prolonged periods.
- Proper mixing of this product with water requires use of a spray tank equipped with agitation.
- Thoroughly clean spray equipment before preparing the spray solution.
- Maintain constant agitation before and throughout the spraying operation.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

### **Stand-alone product solution:**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- With the agitator running, add the specified amount of this product to the tank.
- Continue agitation while adding the remainder of the water and allow time for good dispersion.
- Begin application of the spray solution after the product has completely dispersed in the mix water and maintain agitation during spraying.

### **Tank mixture with other products:**

- A. **Compatibility:** This product is compatible with many pesticides and additives commonly used in tank mixtures. Do not tank mix with other pesticides, surfactants, or fertilizers unless the mixture has been determined to be compatible and non-injurious to the crop under your conditions of use. To determine the physical compatibility of this product with tank mix partners prior to full scale use, conduct a jar test as follows: Using a quart jar, add proportionate amounts of the tank mixture components to 1 quart of water in the following order: 1) wettable powders and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, 4) additives and adjuvants. Mix thoroughly and let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been confirmed, use the same procedure for adding the tank mix partners to the spray tank.

**NOTE:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity.

### **B. Mixing instructions**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- While agitator running, add tank mix partners to the tank in the following order: 1) wettable powder and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, and 4) additives and adjuvants.
- Allow the material to completely dissolve / disperse into the mix water.

- Continue agitation while adding the remainder of the water and this product to the tank mix and allow time for good dispersion.
- Begin application of the spray mixture while maintaining agitation.

#### **Application Instructions**

Observe the most restrictive of the tank mix components label limitations and precautions.

#### **Ground Application**

- For field crops (non-trees), apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.

#### **Aerial Application**

- Use only on crops where aerial application is indicated.
- For field crops (non-trees), use a minimum spray volume of 2 gallons per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For ULV applications (corn), use a minimum spray volume of 1 gallon per acre. Thorough coverage is necessary for good results. Refer to the crop specific application instructions for details regarding best practices to achieve good coverage.
- For tree crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.
- This product is extremely phytotoxic to certain apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be taken to prevent injury to apple trees (and apple fruit).
- DO NOT spray this product where spray drift may reach apple trees.

#### **INSTRUCTIONS FOR USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION)**

- Use only on crops for which chemigation is specified on this label.
- Apply this product through sprinkler irrigation systems including center pivot, moving wheel, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- Non-uniform distribution of treated water may result in crop injury, lack of effectiveness, or illegal pesticide residues in the crop.
- Apply in 0.1-0.25 inches of water per acre. Excessive water may reduce efficacy.
- Contact your State Extension Service Specialist, equipment manufacturer, or other experts for questions regarding calibration.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Spray Preparation:** Thoroughly clean chemical tank and injector system. Flush system with clean water.

#### **Operating Instructions:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
8. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
9. Do not apply when wind speed favors drift beyond the target area.

#### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when applying this product through center pivot systems as it may result in non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 0.125 to 0.25 inch of water per acre over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product and sufficient water to the solution tank to meet the injection time requirements.
- Make sure the system is fully charged with water before starting injection of the spray solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant agitation of the spray solution during the injection period.
- Continue to operate the system until the spray solution has cleared the sprinkler head.

#### **Solid Set, Hand Move, and Moving Wheel Irrigation Equipment**

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the spray solution has cleared the last sprinkler head.

#### **Specific Instructions for Public Water Systems**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid

from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

## CROP SPECIFIC DIRECTIONS FOR USE

### ALMONDS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria leaf spot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum acutatum)</i><br>Leaf Blight<br><i>(Seimatosporium lichenicola)</i><br>Leaf rust<br><i>(Tranzschelia discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shot hole<br><i>(Wilsonomyces carpophilus)</i>  | 17.5 – 26                     | Apply beginning at bud break and repeat at 7- to 14-day intervals. Make no more than 2 consecutive applications before switching to a non-Group 11 fungicide.   |
| Brown Rot Blossom Blight<br><i>(Monilinia spp.)</i>   | 14 - 26                       | Apply at early bloom stage. If disease pressure is low, make a second application of 14 fl oz/A as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, treat at 50-75% bloom and petal fall if needed. Use this product for no more than 2 blossom blight applications. |
| <b>Notes:</b><br>Make no more than 2 sequential applications of a Group 11 fungicide prior to alternating with another product with a different mode of action. Almond diseases are more effectively controlled by ground application using sufficient water volume to provide thorough and uniform coverage. Aerial application may be used if necessary but disease control may be reduced. Apply by air only at growth stages prior to and including 5 weeks after petal fall. Use a minimum application volume of 15 gallons/A. |                               |   |
| <b>Use Limitations</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 112 fl oz/A per crop.</li> <li>◆ Do not apply more than 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Do not graze livestock in treated areas or cut treated cover crop for feed.</li> <li>◆ Pre-harvest Interval (PHI) = 60 Days.</li> </ul>                               |                               |   |

## BANANAS, PLANTAINS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Black Sigatoka<br><i>(Mycosphaerella fijiensis)</i><br>Yellow Sigatoka<br><i>(Mycosphaerella musicola)</i>   | 10.5                          | Apply in 10-20 gallons of water/A before disease symptoms appear at the onset of the rainy season.<br>Apply by ground (minimum of 15 gal./A) or air (minimum of 5 gal./A).<br>Make no more than two (2) consecutive applications at 21- to 25- day intervals before rotating to another fungicide with a different mode of action for at least 2 sprays.<br>Do not exceed 8 applications per season. To help prevent resistance development, avoid the application of triazole pesticides for at least 2 consecutive months during periods of lower disease pressure. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply within 100 yards of non-bagged bananas.</li> <li>♦ Do not apply on bananas unless they are protected by polyethylene bags.</li> <li>♦ Do not apply on plantains if the fruit present are not protected with polyethylene bags.</li> <li>♦ Do not apply more than 84 fl oz of this product during each growing season (this includes any preharvest sprays).</li> <li>♦ Do not feed whole bananas or plantains to animals.</li> <li>♦ Do not apply more than 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 1.08 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> </ul> |                               |   |



## BEANS, DRY AND SUCCULENT

*Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine);

*Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean);

*Vigna* spp. (including asparagus bean, blackeyed pea and cowpea)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria blight<br><i>(Alternaria spp.)</i><br>Alternaria leaf spot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum lindemuthianum)</i><br>Ascochyta blight<br><i>(Mycosphaerella pinodes)</i><br>Ascochyta leaf and pod spot<br><i>(Ascochyta spp.)</i><br>Ascochyta leaf spot<br><i>(Ascochyta phaseolorum)</i><br>Bean rust<br><i>(Uromyces appendiculatus)</i><br>Rust<br><i>(Phakopsora spp.)</i><br>Southern blight<br><i>(Sclerotium rolfsii)</i><br>Web blight<br><i>(Rhizoctonia solani)</i> | 10.5 - 14                     | Begin applications when conditions are conducive to disease development. Make up to 3 applications at 7- to 14-day intervals<br><br>Apply by ground or by air.<br><br><u>NOTE:</u> Application of this product on certain bean varieties may cause crinkled and/or greener leaves. Yield reductions have not been observed in treated beans displaying these characteristics. |
| <b>Use Limitations:</b><br>♦ Not for use on cowpea cultivars intended for livestock feeding only.<br>♦ Do not apply more than 42 oz. of this product/crop/A.<br>♦ Do not apply more than 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI):<br>• Dry bean - 14-Days<br>• Succulent beans - 7 Days  |                               |   |

### BERRIES - BUSHBERRY Subgroup 13-07B

Aronia berry; Blueberry (highbush and lowbush); Buffalo Currant; Chilean Guava; Cranberry (highbush); Currant (black and red); Elderberry; European Barberry; Gooseberry; Honeysuckle (edible); Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Lingonberry; Native Currant; Salal; Sea Buckthorn; and all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Botryosphaeria canker<br><i>(Botryosphaeria spp.)</i><br>Leaf Spot and Stem Canker<br><i>(Septoria albopunctata)</i><br>Leaf Spot<br><i>(Septoria spp.)</i><br>Mummyberry<br><i>(Monilinia vaccini-cotymbosi)</i><br>Phomopsis Twig Blight, Fruit Rot,<br>and Stem Canker<br><i>(P. vacciniae)</i><br>Powdery Mildew<br><i>(Microsphaera vaccinii)</i><br>Rust<br><i>(Pucciniastrum vaccinii)</i>                                  | 14 - 21                       | <p>For <u>mummyberry</u>, make the first application at green tip and repeat in 7 to 10 days. If conditions are favorable for disease development, apply at pink bud and repeat applications at 7- to 10- day intervals through petal fall.</p> <p>For <u>other diseases</u>: begin applications prior to disease development and continue throughout the season at 7- to 14-day intervals.</p> <p>Apply by ground or by air (minimum of 15 gal./A).</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides.</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply more than 82 fl oz of this product/A per season.</li> <li>♦ Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |  |

### BERRIES - CANEBERRY Subgroup 13-07A

Blackberry; Bingleberry; Boysenberry; Dewberry; Loganberry; Lowberry; Marionberry; Olallieberry; Raspberry (red and black); Raspberry (wild); Youngberry; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br><i>(Spaceloma necator)</i> ,<br><i>(Elsinoe veneta)</i><br>Botryosphaeria canker<br><i>(Botryosphaeria dothidea)</i><br>Leaf and Cane Spot<br><i>(Septoria rubi)</i><br>Leaf spot<br><i>(Septoria spp.)</i><br>Powdery mildew<br><i>(Sphaerotheca macularis)</i><br>Rosette or double blossom of<br>blackberries<br><i>(Cercospora rubi)</i><br>Rust<br><i>(Phragmidium violaceum)</i>                            | 14 - 21                       | Begin applications prior to disease development and continue throughout the season at 14-day intervals.<br>Apply by ground or by air (minimum of 15 gal./A).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 105 fl oz/A of this product per crop.</li> <li>◆ Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |  |

### BERRIES – STRAWBERRIES and LOW GROWING BERRY Subgroup 13-07G (Except Cranberry)

Bearberry; Bilberry; Cloudberry; Muntries; Partridgeberry; Strawberry; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Anthracnose<br>( <i>Colletotrichum</i> spp.)<br>Leaf Rust<br>( <i>Phragmidium potentillae</i> )<br>Leaf Spot<br>( <i>Cercospora fragariae</i> )<br>Powdery Mildew<br>( <i>Sphaerotheca macularis</i> )  | 14                            | Begin applications prior to disease development and repeat at 10- to 14-day intervals.<br>Apply by ground (20 gal/A minimum) or air (15 gal/A minimum).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than four (4) applications per season of this product or any other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 0 Day.</li> </ul> |                               |  |

### BULB VEGETABLES, Crop Group 3-07

Garlic; Leek; Bulb Onion [Chinese onion (bulb); daylily (bulb); fritillaria (bulb); garlic (bulb); great-headed garlic (bulb); lily (bulb); onion (bulb); pearl onion; potato onion (bulb); serpent garlic (bulb); shallot (bulb)]; **Green Onion** [Beltsville bunching onion; Chinese chive (fresh leaves); chive (fresh leaves); elegans hosta; fresh onion; fritillaria (leaves); green onion; kurrat; lady's leek; leek; macrostem onion; shallot (fresh leaves); tree onion (tops); Welsh onion (tops); wild leek]; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Cladosporium leaf blotch<br>( <i>Cladosporium allii</i> )<br>Purple blotch<br>( <i>Alternaria porri</i> )<br>Rust<br>( <i>Puccinia allii</i> )   | 14 - 21                       | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the higher rate and shorter interval when disease conditions are severe.<br>Apply by ground (15 gal/A minimum) or air (minimum of 5 gal/A).<br>Make only 1 application before alternating with a non-Group 11 fungicide. |
| Botrytis leaf blight<br>( <i>Botrytis squamosa</i> )<br>Downy mildew<br>( <i>Peronospora destructor</i> )<br>White Rot<br>( <i>Scierotium cepivorum</i> )  | 17.5 - 26                     | <b>Note:</b> Tank mixing this product with emulsifiable concentrate (EC) formulations may result in phytotoxicity   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A per season of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>Green onions = 0 Day</li> <li>Dry bulb onions = 14 Days</li> </ul> </li> </ul> |                               |   |

## CARROT

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria Leaf Blight<br><i>(Alternaria dauci)</i><br>Early blight<br><i>(Cercospora carotae)</i><br>Powdery Mildew<br><i>(Erysiphe polygoni)</i>  | 14                            | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the shorter interval when disease conditions are severe.<br><br>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation.<br><br>Do not make more than one application of this product before alternating with a non- Group 11 fungicide. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 56 fl oz/A of this product per crop.</li> <li>◆ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest interval (PHI) = 14 Days.</li> </ul> |                               |   |

## CELERY

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Early blight<br><i>(Cercospora apii)</i><br>Late blight<br><i>(Septoria apicola)</i>   | 14                            | Apply at 7- to 10-day intervals alternating with a fungicide that has a different mode of action.<br><br>Apply by ground, air (minimum of 5 gal./A) or chemigation.<br><br>Do not make more than one application of this product or other Group 11 fungicides before |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 56 fl oz/A of this product per crop.</li> <li>◆ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> </ul> Pre-harvest interval (PHI) = 14 Days. |                               |  |

**CEREALS\***  
Barley, Oats, Rye, Triticale

\* See Crop Specific Use Directions for other cereals: Cereal (wheat), Corn (Field, Pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Barley Scald<br>( <i>Rhynchosporium secalis</i> )<br>Barley Stripe<br>( <i>Pyrenophora graminea</i> )<br>Glume Blotch<br>( <i>Stagonospora nodorum</i> )<br><i>Helminthosporium</i> Leaf Blight<br>( <i>Drechslera tritici-repentis</i> )<br>Kernel Blight<br>( <i>Alternaria</i> spp.)<br>Leaf Blight<br>( <i>Septoria tritici</i> )<br>Net blotch<br>( <i>Pyrenophora teres</i> )<br>Powdery Mildew<br>( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.)<br>Spot Blotch<br>( <i>Bipolaris sorokiniana</i> )<br>Tan Spot<br>( <i>Pyrenophora tritici-repentis</i> )  | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>Make applications no more frequently than every 14 days.               |
| Foot Rot/Eyespot<br>( <i>Tapesia</i> spp.)  | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.                                    |
| <b>Early Season Suppression</b><br>Glume Blotch<br>( <i>Stagonospora nodorum</i> )<br>Leaf Blight<br>( <i>Septoria tritici</i> )<br>Powdery Mildew<br>( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.)<br>Tan Spot<br>( <i>Pyrenophora tritici-repentis</i> )  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see above).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation. This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage. An adjuvant may be added at specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 2 applications/A per season.</li> <li>♦ Do not apply after Feekes 10.54.</li> <li>♦ Do not exceed 28 fl oz/A of this product per season.</li> <li>♦ Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 7 Days for Forage and Hay</li> <li>♦ Under certain environmental conditions, tank mixtures of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

**CEREALS \***  
**Wheat**

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Corn (field, pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Early Season Suppression</b><br>Glume Blotch<br>( <i>Sclerotinia nodorum</i> )<br>Leaf Blight<br>( <i>Septoria tritici</i> )<br>Powdery Mildew<br>( <i>Blumeria</i> spp.),<br>( <i>Erysiphe</i> spp.)<br>Tan Spot<br>( <i>Pyrenophora tritici-repentis</i> )  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see below).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing.   |
| <b>Control of Leaf Diseases</b><br>Glume Blotch<br>( <i>Sclerotinia nodorum</i> )<br>Helminthosporium Leaf Blight<br>( <i>Drechslera tritici-repentis</i> )<br>Leaf Blight<br>( <i>Septoria tritici</i> )<br>Powdery Mildew<br>( <i>Blumeria</i> spp.),<br>( <i>Erysiphe</i> spp.)<br>Rust<br>( <i>Puccinia</i> spp.)<br>Spot Blotch<br>( <i>Bipolaris sorokiniana</i> )<br>Tan Spot<br>( <i>Pyrenophora tritici-repentis</i> )  | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>The minimum application interval is 14 days. Applications may continue through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues. |
| Foot Rot/Eyespot<br>( <i>Tapesia</i> spp.)   | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.  |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage.  |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 2 applications/A per season.</li> <li>Do not apply after Feekes 10.54.</li> <li>Do not exceed 28 fl oz/A of this product per season.</li> <li>Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest interval (PHI) = 7 Days for Forage and Hay</li> <li>Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

## Field, Pop (Including Seed Production)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Anthracnose leaf blight<br><i>(Colletotrichum graminicola)</i><br>Eye spot<br><i>(Aureobasidium zeae)</i><br>Gray leaf spot<br><i>(Cercospora zeae-maydis)</i><br>Northern corn leaf blight<br><i>(Sclerotinia turcica)</i><br>Northern corn leaf spot<br><i>(Cochliobolus carbonum)</i><br>Physoderma brown spot<br><i>(Physoderma maydis)</i>   | 10.5                          | <b>Early Application (V4 – V8)</b><br>Make an early application (V4-V8) for early season disease control and plant performance benefits.  |
| Rusts<br><i>(Puccinia spp.)</i><br>Southern corn leaf blight<br><i>(Cochliobolus heterostrophus)</i><br>also known as:<br>Helminthosporium leaf blights<br><i>(H. maydis, H. turcicum, H. carbonum)</i><br><br><b>Suppression of:</b><br>Diplodia ear rot<br><i>(D. maydis)</i>   | 10.5 - 14                     | <b>Later Season Application</b><br><br><u>For gray leaf spot, rusts, anthracnose, and eye spot,</u> begin applications when disease first appears. If conditions favorable for disease persist, repeat applications at 14-day intervals.<br><br><u>For leaf blights:</u> apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.<br><br>Do not use adjuvants or other additives after the V8 growth stage and prior to the VT growth stage as use during these development stages may impose stress on the plant that could inhibit proper kernel development. VT is defined as when the last branch of the tassel is completely visible but silks have not yet emerged from the ear shoot.<br><br>Do not make more than two (2) applications of this product or other Group f1 fungicides per year.<br><br>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control. |
| <b>Notes:</b><br>Ensure thorough coverage for best results. For ULV aerial applications DO NOT use less than 1.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions do not favor good coverage.<br>Apply by ground, air (ULV), or chemigation.  |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 56 fl oz/A of this product per season.</li> <li>Do not exceed 28 fl oz (0.224 lb propiconazole a.i.) for field corn harvested for forage.</li> <li>Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 30 Days for forage, grain, and stover.</li> </ul> |                               |   |



# CORN \*

## Sweet Corn (Including Seed Production)

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Anthracnose leaf blight<br><i>(Colletotrichum graminicola)</i><br>Eye spot<br><i>(Aureobasidium zeae)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Northern corn leaf blight<br><i>(Setosphaeria turcica)</i><br>Northern corn leaf spot<br><i>(Cochliobolus carbonum)</i><br>Rusts<br><i>(Puccinia spp.)</i><br>Southern corn leaf blight<br><i>(Cochliobolus heterostrophus)</i>  | 10.5 - 14                     | Begin applications when disease first appears. If conditions favorable for disease development persist, repeat applications at 14-day intervals.<br><br><u>For leaf blights:</u> apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.<br><br>Alternate applications of this product with another fungicide that has a different mode of action. |
| <b>Notes:</b><br>Ensure thorough coverage for best results.<br>Apply by ground, air (ULV), or chemigation.<br>For aerial applications, use of a crop oil concentrate may reduce evaporation and enhance canopy penetration and coverage. Consult your aerial applicator for effective concentrations of crop oil concentrate.<br>DO NOT use less than 1.0 GPA for ULV applications. Use higher water volumes for aerial applications if equipment and/or conditions do not favor good coverage. |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 56 fl oz/A of this product per season.<br>♦ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product..<br>♦ Pre-harvest Interval (PHI) = 14 Days for ears or forage.   |                               |   |

## CRANBERRY

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Cottonball<br><i>(Monilinia oxycocci)</i><br>Fruit rots<br><i>(Phylospora vaccinii)</i><br><i>(Glomerella cingulata)</i><br><i>(Coleophoma empetri)</i><br>Lophodermium twig blight<br><i>(Lophodermium spp.)</i>   | 14 - 21                       | <p>Make the first application at leaf bud break and repeat 14 days later. Make additional applications at early bloom. Do not make more than two (2) consecutive sprays before alternating to a non-Group 11 fungicide.</p> <p>For resistance management, make no more than 3 sprays per season using any Group 11 (QoI containing) fungicide. Under severe disease pressure, use the higher specified rate.</p> <p>Apply by ground (minimum of 10 gal./A) or air (minimum of 20 gal./A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 84 fl oz/A of this product per crop.</li> <li>♦ Do not exceed 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 45 Days.</li> <li>♦ Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.</li> <li>♦ Do not treat cranberry fields used for aquaculture of fish and crustacea.</li> <li>♦ Do not apply to flooded crop.</li> <li>♦ Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Use care when making applications near non-target aquatic habitats.</li> <li>♦ Use is limited to Oregon, Washington, and Wisconsin only.</li> </ul> |                               |   |

## FILBERT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Eastern filbert blight<br><i>(Anisogramma anomala)</i>   | 14 - 21                       | <p>Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p><b>NOTE:</b> Applications of this product on certain varieties of filbert, may cause smaller and/or greener leaves. Yields of filbert displaying these characteristics have not been reduced due to treatment.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crop for feed.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days.</li> </ul> |                               |  |

### GRASSES (Grown for Seed)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Ergot Stem Diseases<br>Powdery mildew<br>( <i>Erysiphe graminis</i> )<br>Rust<br>( <i>Puccinia</i> spp.)<br>Selenophoma Stem Eyespot<br>( <i>Selenophoma</i> spp.)  | 14 - 26                       | Apply when powdery mildew infections, <i>Selenophoma</i> infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. To maximize control of severe rust pressure, apply 26 fl. oz/A (for bluegrass apply 14 fl oz/A) at 14-day intervals until the seed is mature.<br><u>For bluegrass</u> , it is important to begin application early in the growing season.<br>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action. |
| <b>Notes:</b><br>This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. Apply by ground in a minimum of 20 gallons of water per acre or by air in a minimum of 10 gallons of water per acre.<br>Apply by ground, air, or chemigation.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 86 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 20 Days for seed.</li> <li>♦ Do not feed hay cut within 20 days of the last application.</li> <li>♦ Do not graze treated areas within 140 days of the last application.</li> <li>♦ Use is limited to Idaho, Minnesota, Nebraska, Oregon, and Washington only.</li> </ul> |                               |  |

### MINT Peppermint, Spearmint

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Powdery mildew<br>( <i>Erysiphe</i> spp.)<br>Rust<br>( <i>Puccinia menthae</i> )  | 10.5 - 14                     | Begin applications when the plants are 2 to 4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.<br>Apply by ground (minimum of 20 gal./A) or chemigation. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 28 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 7 Days.</li> </ul> |                               |   |

# PEANUT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Foliar diseases</b><br>Early leaf spot<br><i>(Cercospora arachidicola)</i><br>Late leaf spot<br><i>(Cercosporidium personatum)</i><br>Rust<br><i>(Puccinia arachidis)</i><br>Web blotch<br><i>(Phoma arachidicola)</i>  | 10.5 - 14                     | Apply beginning 35 to 40 days after planting or at the first appearance of disease. Repeat applications at 14-day intervals. Use the higher specified application rate under heavy disease pressure.<br><br>This product may be used in State Agricultural Extension advisory programs (disease forecasting) which advises on application timing based on environmental factors favorable for disease development.<br><br>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.  |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crofalariae)</i><br>Pythium pod rot<br><i>(Pythium myriofyllum)</i>  | 21 - 28                       | Apply this product as a foliar spray approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply 28 fl oz/Acre of product. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply 21-28 fl oz/Acre of product.   |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crofalariae)</i><br>Pythium pod rot<br><i>(Pythium myriofyllum)</i>  | 14 – 28                       | <b>Tank Mixture with Nufarm's NUP-08099</b><br>Apply 14 fl oz of this product in a tank mix with Nufarm's NUP-08099 or another fungicide for control of soil-borne diseases. A minimum of 0.15 lb azoxystrobin a.i./A should be used in the tank mix (refer to the rate conversion table below).<br><u>Note:</u> Do not apply more than 0.4 lb of azoxystrobin a.i./A per application.<br><br>Apply the tank mixture as a foliar spray at approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply a total of 0.3 to 0.4 lb azoxystrobin a.i. per application. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply a total of 0.2 to 0.4 lb azoxystrobin a.i. per application. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>When applying this product by chemigation or as a directed ground application, additional application methods should be employed for leaf spot control.  |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 56 fl oz/A of product per season.</li> <li>Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.80 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 14 Days when using a maximum application rate of 14 fl oz/A.</li> <li>Pre-harvest Interval (PHI) = 21 Days when using application rates greater than 14 fl oz/A.</li> <li>Do not feed hay from treated fields to livestock if using application rates greater than 14 fl oz/A.</li> </ul> |                               |  |

## PECANS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br>( <i>Glomerella cingulata</i> )<br>Downy spot<br>( <i>Mycosphaerella caryigena</i> )<br>Liver spot<br>( <i>Gnomonia caryae</i> pv <i>pecanae</i> )<br>Pecan scab<br>( <i>Cladosporium caryigenum</i> )<br>Powdery mildew<br>( <i>Microsphaera penicillata</i> )<br>Vein spot<br>( <i>Gnomonia nerviseda</i> )<br>Zonate leaf spot<br>( <i>Cristulariella moricola</i> )   | 14-21                         | <p><u>For Pecan Scab:</u> Apply 14 to 21 fl oz product/A at 14-day intervals during bud break and pre-pollination sprays. Apply 20 to 21 fl oz product/A during nut formation and cover sprays. Use higher rates when disease pressure is heavier. Do not apply after shuck split.</p> <p><u>Other foliar diseases:</u> For control of mid to late season foliar diseases, apply 14 to 20.5 fl oz of this product/A in a tank mix with other fungicides registered for control of these diseases on pecans..</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control.</p> |
| <b>Notes:</b><br>Apply by ground or air (minimum of 20 gal/A).<br>For ground applications, use sufficient water to ensure thorough coverage.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 115 fl oz/A of product per season.</li> <li>Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 45 Days or no later than shuck split, whichever is first.</li> <li>Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |  |

## PISTACHIOS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Alternaria late blight<br>( <i>Alternaria alternata</i> )<br>Botryosphaeria panicle and shoot blight<br>( <i>Botryosphaeria dothidea</i> )<br>Septoria leaf spot<br>( <i>Septoria pistaciarum</i> )   | 17.5 - 21                     | <p>Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.</p> <p>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Apply by ground or air (minimum of 15 gal/A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 112 fl oz/A of product per crop.</li> <li>Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 60 Days.</li> <li>Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |  |

### RICE (including WILD RICE) \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Aggregate Sheath Spot<br>( <i>Rhizoctonia oryzae-sativae</i> )<br>Black Sheath Rot<br>( <i>Gaeumannomyces graminis</i> )<br>Brown leaf spot<br>( <i>Helminthosporium oryzae</i> )<br>Kernel smut<br>( <i>Tilletia barclayana</i> )<br>Leaf blast<br>( <i>Piricularia grisea</i> )<br>Leaf smut<br>( <i>Entyloma oryzae</i> )<br>Narrow brown leaf spot<br>( <i>Cercospora oryzae</i> )<br>Panicle blast<br>( <i>Piricularia grisea</i> )<br>Sheath Blight<br>( <i>Rhizoctonia solani</i> )<br>Sheath Spot<br>( <i>Rhizoctonia oryzae</i> )<br>Stem Rot<br>( <i>Sclerotium oryzae</i> )<br><br><b>Disease Suppression</b><br>False Smut<br>( <i>Ustilaginoides virens</i> )   | 14-27                         | <p>Application timing depends on disease severity, disease complex, rice variety, and growth stage. Consult your State Agricultural Experiment Station or Extension Service Specialist for local economic thresholds established for various rice varieties and diseases.</p> <p><u>For Leaf Blast:</u> Apply 21 to 27 fl oz/A for preventive control.</p> <p><u>For Panicle Blast:</u> Apply at 10% head emergence followed with an application of Nufarm's NUP-08099 at 90% emergence. Refer to the label for NUP-08099 for rates and timing.</p> <p><u>All other leaf/stem diseases:</u> Apply 15.75 to 27 fl oz/A at initial sign of disease. Use higher rates when under heavy disease pressure or when environmental conditions are highly favorable for disease development. Make a second application 14 days later.</p> <p><u>Tank mix option:</u> Use 15.75 to 20.5 fl oz/A of this product in a tank mix with Nufarm's NUP-08099 or other fungicides for control of rice diseases. Use a minimum of 0.15 lb azoxystrobin a.i./A in the tank mix (refer to the rate conversion table in this label). Do not exceed 0.3 lb azoxystrobin a.i./A per application to rice or 0.25 lb azoxystrobin a.i./A per application to wild rice.</p> <p>Use the lower application rate of 14 fl oz/A for hybrids only or varieties with at least moderate resistance to sheath blight. Apply from late boot to boot split for control of diseases (except leaf blast and false smut) of rice (including wild rice). When applying prior to late boot or after boot split growth stages, use the higher rates listed above.</p> <p>Do not make more than two (2) applications of this product or other Group 11 fungicide per acre per season.</p> |
| <b>Notes:</b><br>For aerial application, use volumes of 5-10 GPA. An adjuvant may be added at label specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply to stubble or ratoon crop rice.</li> <li>◆ Do not treat rice fields where commercial farming of crayfish will be practiced.</li> <li>◆ Do not drain water from treated rice fields into ponds used for commercial fish farming.</li> <li>◆ Do not use water drained from treated fields to irrigate other crops.</li> <li>◆ Do not exceed 42 fl oz/A of product per season.</li> <li>◆ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not exceed 0.7 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Do not release floodwater within 14 days of application.</li> <li>◆ Pre-harvest Interval (PHI) = 35 Days.</li> </ul> |                               |   |

## SORGHUM \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Rice (including wild rice)

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Anthracnose<br><i>(Colletotrichum graminicola)</i><br>Ergot<br><i>(Claviceps sorghi)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Ladder Leaf Spot<br><i>(Cercospora fusimaculans)</i><br>Leaf Blight<br><i>(Exserohilum furcicum)</i><br>Zonate Leaf Spot<br><i>(Gloeocercospora sorghi)</i>  | 10.5 - 14                     | <p><u>For ergot control:</u> make the first application at or just prior to flowering. Repeat at 5- to 7-day intervals.</p> <p><u>For other diseases:</u> apply at first sign of disease. Continue applications at 14-day intervals.</p> <p>Apply by ground or air.</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 56 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 28 fl oz (0.22 lb propiconazole a.i.) on sorghum harvested for forage.</li> <li>♦ For sorghum grown for grain and/or stover, do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ For sorghum grown for forage, do not exceed 0.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not graze livestock or cut for green chop or silage within 30 days of application.</li> <li>♦ Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>○ PHI = 21 Days for grain or stover</li> <li>○ PHI = 30 Days for forage</li> </ul> </li> </ul> |                               |   |

## SOYBEAN

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Aerial web blight<br>( <i>Rhizoctonia solani</i> )<br>Alternaria leaf spot<br>( <i>Alternaria</i> spp.)<br>Anthracnose<br>( <i>Colletotrichum truncatum</i> )<br>Brown spot<br>( <i>Septoria glycines</i> )<br>Cercospora blight and leaf spot<br>( <i>Cercospora kikuchii</i> )<br>Frogeye leaf spot<br>( <i>Cercospora sojina</i> )<br>Pod and stem blight<br>( <i>Diaporthe</i> spp.)<br>Soybean rust<br>( <i>Phakopsora pachyrhizi</i> ) | 10.5 - 21                     | <p><u>Foliar diseases except rust:</u> Apply 14-21 fl oz/A at growth stage R3 (early pod set) when pods are 1/8 - 1/4 inch long) and 14 to 21 days later at growth stage R5 (pod fill). Applications may be made earlier if conditions are conducive to disease development.</p> <p><u>For soybean rust:</u> Apply 14-21 fl oz/A at first indication that disease is in the area. Use preventively for best control. Repeat applications at 14- to 21-day intervals. Use higher rate and shorter application interval when diseases are present in the field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than 2% or if disease is in mid-canopy, control will not be acceptable. Scouting for the disease and/or being aware of the proximity of the disease via monitoring systems will aid in determining the proper application timing which will maximize the effectiveness of the fungicide.</p> <p>This product may cause crinkled, smaller, and/or greener leaves on certain varieties of soybean. A reduction in yield has not been observed in treated beans displaying these characteristics.</p> |
| <p><b>Notes:</b><br/> This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. DO NOT apply in less than 2.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions are not favorable for good coverage.<br/> Apply this product by ground, air, or chemigation.</p>   |                               |   |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 42 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Apply up to Stage R6.</li> </ul>   |                               |   |



## STONE FRUIT

Apricot,; Cherry (sweet, tart); Nectarine; Peach; Plum; Plumcot; Prune; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Alternaria spot and fruit rot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum prunicola,</i><br><i>C. gloeosporioides)</i><br>Brown rot blossom blight<br><i>(Monilinia spp.)</i><br>Brown rot on fruit<br><i>(Monilinia spp.)</i><br>Cherry Leaf Spot<br><i>(Blumeriella jaapii)</i><br>Powdery mildew<br><i>(Sphaerotheca pannosa,</i><br><i>Podosphaera clandestina)</i><br>Rust<br><i>(Tranzschelia discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shothole<br><i>(Wilsonomyces carpophilus)</i>  | 14                            | <p><u>For brown rot blossom blight:</u> apply at early bloom. If disease pressure is low, a second application may be made as needed through petal fall. Under high disease pressure and/or for very susceptible varieties, treat at 50-75% bloom and petal fall if needed.</p> <p><u>For brown rot on fruit:</u> make a maximum of 2 applications at a minimum interval of 10 days during the preharvest period up to the day of harvest.</p> <p><u>For powdery mildew, rust, and cherry leaf spot:</u> follow the blossom blight schedule. Make up to 2 additional applications at 10- to 14-day intervals from the end of petal fall to harvest.</p> <p><u>For scab:</u> begin applications at petal fall and continue at 7- to 14-day intervals.</p> <p><u>For other diseases:</u> treat at onset of disease and repeat applications at 10- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action</p> |
| <p><b>Notes:</b><br/>                     Stone fruit diseases are more effectively controlled by ground applications using sufficient water volume to provide thorough and uniform coverage. Aerial application (minimum of 15 gal./A) may be used if necessary but disease control may be reduced.</p> <p>Applications to Stanley plums during bloom may cause fruit to be less oval in shape and smaller in size at harvest. If any effects on the shape and size of Stanley plums is of concern to you, do not apply this product to your Stanley plums earlier than 21 days prior to harvest.</p> |                               |   |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 70 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.56 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 0 Day.</li> </ul>   |                               |   |

## SUGAR BEET

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| <p>Cercospora leaf spot<br/>(<i>Cercospora beticola</i>)</p> <p>Powdery mildew<br/>(<i>Erysiphe polygoni</i>)</p> <p>Rhizoctonia crown rot<br/>(<i>Rhizoctonia solani</i>)</p>  | 14                            | <p>Begin applications preventively or on a forecast system. For powdery mildew, apply at first sign of disease.</p> <p>Make applications at 10- to 21-day intervals. Alternate applications of this product with a non-triazole fungicide (non-Group 3) that is registered for use on sugar beets for control of these diseases. If disease pressure is high, use the highest rate and shortest spray interval specified on the label.</p> <p>For Rhizoctonia crown rot, apply 14 fl oz of product in a 7-inch band over the row at the 4- to 8- leaf stage.</p> |
| <p><b>Notes:</b></p> <p>For best results, use sufficient water volume to provide thorough and uniform coverage.</p> <p>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation (apply in 0.1 - 0.25 inch of water/Acre). Using excessive amounts of water for chemigation may reduce efficacy of the product.</p> <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 42 fl oz of product/Acre per season.</li> <li>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 21 Days.</li> </ul> |                               |  |

## SUGARCANE

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| <p>Brown Rust<br/>(<i>Puccinia melanocephala</i>)</p> <p>Orange Rust<br/>(<i>Puccinia kuehnii</i>)</p>  | 16 - 22                       | <p>Begin applications prior to rust development and continue throughout the season at 14- to 28-day intervals. Scout fields and begin applications at the earliest sign of rust.</p> <p>Apply by ground, air, or chemigation.</p> |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 88 fl oz of product/Acre per season.</li> <li>♦ Do not exceed 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |   |

## TREE NUTS\*\*

Beechnut, Brazil Nut, Butternut, Cashew, Chesnut, Chinquapin, Hickory, Macadamia, Walnut

**\*\* See Crop Specific Use Directions for Almond, Filbert, Pecan, and Pistachio**

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Foliar Diseases   | 14 - 21                       | <p>Begin applications at first sign of disease and repeat applications at 7- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of this product or other Group 11 fungicides per season.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <b>Notes:</b><br>Apply by ground for best control of tree nut diseases.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days except for pecans (refer to crop specific directions for pecans)</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |   |

## RATE CONVERSION CHART

| Fluid Ounces Product/Acre | Pounds of Azoxystrobin a.i. | Pounds of Propiconazole a.i. |
|---------------------------|-----------------------------|------------------------------|
| 7                         | 0.056                       | 0.06                         |
| 10.5                      | 0.10                        | 0.08                         |
| 14.0                      | 0.13                        | 0.11                         |
| 15.75                     | 0.15                        | 0.125                        |
| 17.5                      | 0.16                        | 0.14                         |
| 21                        | 0.19                        | 0.17                         |
| 26                        | 0.24                        | 0.21                         |
| 27                        | 0.25                        | 0.22                         |
| 28                        | 0.26                        | 0.22                         |

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE** Store in original container only in a cool, dry, and well ventilated area. Keep container closed when not in use. Do not store near food or feed.

**PESTICIDE DISPOSAL:** Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

**[Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **"NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type/size."

#### **[Nonrefillable Containers 5 Gallons or Less]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **[Nonrefillable containers larger than 5 gallons]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **[Refillable containers larger than 5 gallons]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product and return it unopened to the Seller, and the purchase price will be refunded.

(RV041514)

AZURE is a trademark of Nufarm Americas Inc.

All other trademarks that appear on this label which are not owned by Nufarm Americas Inc. or its subsidiaries are the property of their respective owners.



**NUFARM AMERICAS INC.**  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27545  
Phone: (919) 379-2510 ■ Fax: (919) 467-5923

March 11, 2014

3/31

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Attention: Ms. Shaja B. Joyner, PM 20

Dear Ms. Joyner:

**Subject: NUP-12103 Fungicide – EPA Reg. No. 228-722**  
**Notification per PR Notice 98-10 – Addition of Alternate Brand Name**

In accordance with PR Notice 98-10, Nufarm Americas Inc. is notifying the Agency of the addition of the alternate brand name "AZURE™ MAX Agricultural Fungicide" to the record for Reg. No. 228-722. Non-FIFRA language was also added on the first and last pages of the label.

The following information is enclosed in support of this action:

- Completed Application for Pesticide Registration (Form 8570-1).
- Certification with Respect to Label Integrity form.
- Five (5) copies of the proposed label including one copy with all changes marked.
- CD containing an electronic copy of the label.

If you need additional information, please contact me by phone at (919) 379-2530 or by email at [danielle.larochelle@us.nufarm.com](mailto:danielle.larochelle@us.nufarm.com).

Sincerely,

Danielle A. Larochelle  
Regulatory Manager

ENCLOSURE

version: 9/11/02

| PROPOSED LABEL     |                       |                                 |
|--------------------|-----------------------|---------------------------------|
| EPA Registration # | Date Submitted to EPA | Electronic file name            |
| 000228-00722       | 03-11-2014            | 000228-00722.20140311.ABN_Notif |

David A. Thiele  
Signature

March 11, 2014  
Date

Danielle A. Larochelle  
Name (typed)

Regulatory Manager  
Title[illegible]

# NOTIFICATION

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



**EPA**

United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other:

OPP Identifier Number

## Application for Pesticide - Section I

|   |  |   |
|---|--|---|
| <b>1. Company/Product Number</b><br>228-722   | <b>2. EPA Product Manager</b><br>Shaja B. Joyner | <b>3. Proposed Classification</b><br><br><input type="checkbox"/> None <input type="checkbox"/> Restricted  |
| <b>4. Company/Product (Name)</b><br>NUP-12103 Fungicide   | <b>PM#</b><br>20                                 |   |
| <b>5. Name and Address of Applicant (Include ZIP Code)</b><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560<br><br><input type="checkbox"/> Check it this is a new address |  | <b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:<br><br>EPA Reg. No. _____<br>Product Name _____ |

## Section - II

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.<br><input type="checkbox"/> Resubmission in response to Agency letter dated _____<br><input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Final printed label in response to Agency letter dated : _____<br><input type="checkbox"/> "Me Too" Application<br><input type="checkbox"/> Other - Explain below |
|--|--|

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Notification per PR Notice 98-10: Addition of the alternate brand name "AZURE™ MAX Agricultural Fungicide" and non-FIFRA language.**

*This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.*

**CONTACT:** Danielle Larochelle, Nufarm Americas Inc, 4020 Aerial Center Parkway, Suite 101, Morrisville, NC 27560.  
Tel: 919-379-2530. Email: danielle.larochelle@us.nufarm.com

## Section - III

|   |   |   |   |
|---|---|---|---|
| <b>1. Material This Product Will Be Packaged In:</b>  |   |   |   |
| <b>Child-Resistant Packaging</b><br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No   | <b>Unit Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Unit Packaging wgt.    No. per container | <b>Water Soluble Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Package wgt.    No. per container | <b>2. Type of Container</b><br><input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify): _____ |
| *Certification must be submitted  |   |   |   |
| <b>3. Location of Net Contents Information</b><br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container  | <b>4. Size(s) Retail Container</b><br>2.5 and 30 Gallons  | <b>5. Location of Label Directions</b><br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product       |   |
| <b>6. Manner in Which Label is Affixed to Product</b><br><input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <u>Crack and Peel</u><br><input type="checkbox"/> Stenciled |   |   |   |

## Section - IV

|  |                                       |  |
|--|---------------------------------------|--|
| <b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)</b>  |                                       |  |
| <b>Name</b><br>Danielle A. Larochelle  | <b>Title</b><br>Regulatory Manager    | <b>Telephone No. (Include Area Code)</b><br>(919) 379-2530 |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |                                       | <b>6. Date Application Received (Stamped)</b>              |
| <b>2. Signature</b><br>  | <b>3. Title</b><br>Regulatory Manager |  |
| <b>4. Typed Name</b><br>Danielle A. Larochelle   | <b>4. Date</b><br>March 11, 2014      |  |





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Danielle A. Larochelle  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

MAY 02 2014

Product Name: NUP-12103 Fungicide  
EPA Reg. No.: 228-722  
Subject: Notification dated 3/31/2014: Addition of Alternate CSF  
EPA Decision Number: 489879

Dear Ms. Larochelle:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The alternate confidential statement of formula (CSF) dated 03/31/14 will be placed in the regulatory file.

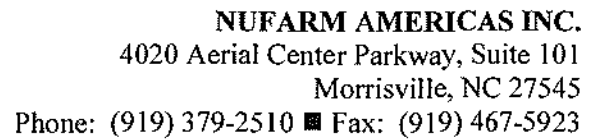
If you have any questions, please contact Shaunta Hill at 703-347-8961 / [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov) or myself at 703-308-3194 / [joyner.shaja@epa.gov](mailto:joyner.shaja@epa.gov).

Sincerely,

A handwritten signature in black ink, which appears to read "Shaja B. Joyner", is written over a large, stylized number "7".

Shaja B. Joyner  
Product Manager (20)  
Fungicide Branch  
Registration Division (7504P)

| Receipt for Section 3   |  | S: 950017               |   | Milestone Email: [Redacted]   |                          |
|---|--|-------------------------|---|---|--------------------------|
| Regulatory Type:  | Product Registration - Section 3               | Resubmission:           | <input type="radio"/> Yes <input checked="" type="radio"/> No | <div>Print Letter</div> <div>Enter More Information</div> <div>Tracking</div> |                          |
| Application Type:   | Notification                                   | Fee For Service:        | <input type="radio"/> Yes <input checked="" type="radio"/> No |   |                          |
| Company:  | 228 NUFARM AMERICAS, INC.                      |                         | <input checked="" type="checkbox"/> V                         |   |                          |
| Risk Manager:   | Registration Division, Risk Management Team 20 |                         |   |   |                          |
| Product #:  | 228-722  | Product Name:           | NUP-12103 Fungicide   |   |                          |
| Overrides   |  |                         |   |   |                          |
| Me Too Section3:  | 100-1324                                       | Me Too Product Name:    | QUILT XCEL  |   |                          |
| Application Date:   | 31-Mar-2014                                    | OPP Rec'd Date:         | 02-Apr-2014   | <div>Receipt Content</div> <div>CSF</div> <div>View/Edit</div>                |                          |
| Front End Date:   | 02-Apr-2014                                    | Risk Manager Send Date: | 02-Apr-2014   |   |                          |
| FFS Due Date:   |  | Negotiated Due Date:    |   |   |                          |
| OPP Target Date:  |  |                         |   |   |                          |
| Fast Track:   | <input type="checkbox"/>                       | New Ingredient:         | <input type="checkbox"/>                                      |   |                          |
| Receipt Description:  |  |                         |   |   |                          |
| CSF Notification to add an additional a.i. source and readjust the diluent certified limits as an alternate formulation (Alt 2) |  |                         |   |   |                          |
| <div>[Handwritten Signature]</div>  |  |                         |   |   |                          |
| Form A:   | <input type="checkbox"/>                       | Signature Date:         |   | Form B:   | <input type="checkbox"/> |
|   |  | Signature Date:         |   |   |                          |



X/8

**Attention:** Ms. Shaja B. Joyner, PM 20

**Subject: NUP-12103 Fungicide – EPA Reg. No. 228-722**  
**Notification of Formulation Amendment per PR Notice 98-10**

The following information is enclosed in support of this action:

- Completed Application for Pesticide Registration (Form 8570-1).
- ~~One~~ (1) copy of the proposed Alternate CSF (# 2) dated 03-31-2014.

Sincerely,

  
Danielle A. Larochelle  
Regulatory Manager

[illegible]

# NOTIFICATION

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



**EPA**

United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other:

OPP Identifier Number

## Application for Pesticide - Section I

|   |  |   |
|---|--|---|
| <b>1. Company/Product Number</b><br>228-722   | <b>2. EPA Product Manager</b><br>Shaja B. Joyner | <b>3. Proposed Classification</b><br><br><input type="checkbox"/> None <input type="checkbox"/> Restricted  |
| <b>4. Company/Product (Name)</b><br>NUP-12103 Fungicide   | <b>PM#</b><br>20                                 |   |
| <b>5. Name and Address of Applicant (Include ZIP Code)</b><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560<br><br><input type="checkbox"/> Check if this is a new address |  | <b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:<br><br>EPA Reg. No. _____<br>Product Name _____ |

## Section - II

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.<br><input type="checkbox"/> Resubmission in response to Agency letter dated _____<br><input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Final printed label in response to Agency letter dated : _____<br><input type="checkbox"/> "Me Too" Application<br><input type="checkbox"/> Other - Explain below |
|--|--|

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

### Notification of Formulation Amendment per PR Notice 98-10:

*This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.*

**CONTACT:** Danielle Larochelle, Nufarm Americas Inc, 4020 Aerial Center Parkway, Suite 101, Morrisville, NC 27560.  
Tel: 919-379-2530. Email: danielle.larochelle@us.nufarm.com

## Section - III

|   |   |   |   |
|---|---|---|---|
| 1. Material This Product Will Be Packaged In:   |   |   |   |
| <b>Child-Resistant Packaging</b><br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No   | <b>Unit Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Unit Packaging wgt.      No. per container | <b>Water Soluble Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Package wgt.      No. per container | <b>2. Type of Container</b><br><input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify): |
| *Certification must be submitted  |   |   |   |
| <b>3. Location of Net Contents Information</b><br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container  | <b>4. Size(s) Retail Container</b><br>2.5 and 30 Gallons  | <b>5. Location of Label Directions</b><br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product         |   |
| <b>6. Manner in Which Label is Affixed to Product</b><br><input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other    Crack and Peel<br><input type="checkbox"/> Stenciled |   |   |   |

## Section - IV

|  |                                       |  |   |
|--|---------------------------------------|--|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)   |                                       |  |   |
| <b>Name</b><br>Danielle A. Larochelle  | <b>Title</b><br>Regulatory Manager    | <b>Telephone No. (Include Area Code)</b><br>(919) 379-2530 |   |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |                                       |  | <b>6. Date Application Received (Stamped)</b> |
| <b>2. Signature</b><br>  | <b>3. Title</b><br>Regulatory Manager |  |   |
| <b>4. Typed Name</b><br>Danielle A. Larochelle   | <b>4. Date</b><br>March 31, 2014      |  |   |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Danielle A. Larochelle  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

APR 15 2014

Product Name: NUP-12103 Fungicide  
EPA Reg. No.: 228-722  
Subject: Notification dated 3/14/2014: Addition of Alternate CSF  
EPA Decision Number: 489512

Dear Ms. Larochelle:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested fails to fall within the scope of PRN 98-10 for this reason:

The first listed technical ingredient and the last listed diluent have been changed in terms of their percents by weight in the formulation, and the certified limits for the mentioned diluent were changed; however, the amount of each of these ingredients by weight going into the formulation did not change, rendering the adjusted values invalid.

The Registration Division has determined that this action is denied and our records have been updated accordingly. No further processing of this action will occur until a resubmission is made. If you have questions concerning this letter, please contact Lindsay Roe at 703-347-0506 or via email at [lindsay.roe@epa.gov](mailto:lindsay.roe@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja B. Joyner".

Shaja B. Joyner  
Product Manager (20)  
Fungicide Branch  
Registration Division (7504P)



NUFARM AMERICAS INC.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27545  
Phone: (919) 379-2510 ■ Fax: (919) 467-5923

March 14, 2014

3/31

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Attention:** Ms. Shaja B. Joyner, PM 20

Dear Ms. Joyner:

**Subject: NUP-12103 Fungicide – EPA Reg. No. 228-722**  
**Notification of Formulation Amendment per PR Notice 98-10**

Please find enclosed a new Alternate CSF (# 1) for Reg. No. 228-722 which lists a new registered source for the active ingredient Azoxystrobin. The nominal concentration and the certified limits for the diluent were adjusted to compensate for the change in the nominal concentration of the technical material. Additionally, alternate producers are listed on the attachment to the CSF. The suppliers of inert ingredients remain the same as listed on the existing Basic CSF dated 06-28-2013. No other changes were made.

The following information is enclosed in support of this action:

- ♦ Completed Application for Pesticide Registration (Form 8570-1).
- ♦ Two (2) copies of the proposed Alternate CSF (# 1) dated 03-14-2014.

If you need additional information, please contact me by phone at (919) 379-2530 or by email at [danielle.larochelle@us.nufarm.com](mailto:danielle.larochelle@us.nufarm.com).

Sincerely,

Danielle A. Larochelle  
Regulatory Manager

ENCLOSURE

# NOTIFICATION

Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0060, Approval expires 05-31-98



**EPA**

United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other:

OPP Identifier Number

## Application for Pesticide - Section I

|   |  |   |
|---|--|---|
| <b>1. Company/Product Number</b><br>228-722   | <b>2. EPA Product Manager</b><br>Shaja B. Joyner | <b>3. Proposed Classification</b><br><br><input type="checkbox"/> None <input type="checkbox"/> Restricted  |
| <b>4. Company/Product (Name)</b><br>NUP-12103 Fungicide   | <b>PM#</b><br>20                                 |   |
| <b>5. Name and Address of Applicant (Include ZIP Code)</b><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560<br><br><input type="checkbox"/> Check if this is a new address |  | <b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:<br><br>EPA Reg. No. _____<br>Product Name _____ |

## Section - II

|   |  |
|---|--|
| <input type="checkbox"/> Amendment -- Explain below.<br><input type="checkbox"/> Resubmission in response to Agency letter dated _____<br><input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Final printed label in response to Agency letter dated : _____<br><input type="checkbox"/> "Me Too" Application<br><input type="checkbox"/> Other - Explain below |
|---|--|

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

### Notification of Formulation Amendment per PR Notice 98-10:

*This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.*

**CONTACT:** Danielle Larochelle, Nufarm Americas Inc, 4020 Aerial Center Parkway, Suite 101, Morrisville, NC 27560.  
Tel: 919-379-2530. Email: danielle.larochelle@us.nufarm.com

## Section - III

|   |   |   |   |
|---|---|---|---|
| <b>1. Material This Product Will Be Packaged In:</b>  |   |   |   |
| <b>Child-Resistant Packaging</b><br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No   | <b>Unit Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Unit Packaging wgt.      No. per container | <b>Water Soluble Packaging</b><br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Package wgt.      No. per container | <b>2. Type of Container</b><br><input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify): |
| <b>* Certification must be submitted</b>  |   |   |   |
| <b>3. Location of Net Contents Information</b><br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container  | <b>4. Size(s) Retail Container</b><br>2.5 and 30 Gallons  |   | <b>5. Location of Label Directions</b><br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product   |
| <b>6. Manner in Which Label is Affixed to Product</b><br><input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <u>Crack and Peel</u><br><input type="checkbox"/> Stenciled |   |   |   |

## Section - IV

|  |                                       |  |   |
|--|---------------------------------------|--|---|
| <b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)</b>  |                                       |  |   |
| <b>Name</b><br>Danielle A. Larochelle  | <b>Title</b><br>Regulatory Manager    | <b>Telephone No. (Include Area Code)</b><br>(919) 379-2530 |   |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |                                       |  | <b>6. Date Application Received (Stamped)</b> |
| <b>2. Signature</b><br>  | <b>3. Title</b><br>Regulatory Manager |  |   |
| <b>4. Typed Name</b><br>Danielle A. Larochelle   | <b>4. Date</b><br>March 14, 2014      |  |   |

# Material Sent for Data Extraction

Reg. # 228-TEE (722)

Description: New product

☐ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 1/6/14

☐ Notification Dated \_\_\_\_\_

☒ New CSF(s) Dated 6/28/13

☐ Other: \_\_\_\_\_

☒ Decision #: 482214

☐ Other Action/Comments: \_\_\_\_\_  
\_\_\_\_\_

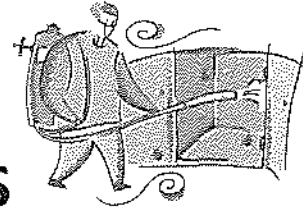
File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Erin Malone

Phone: 703 347 0253 Division: RD

Date: 1/8/14





## NEW APPLICATIONS

DATE: AUG 20 2013

FILE REG NUMBER: 228-TEE

FEP (OPPIN ENTRY) GM-LV AUG 21 2013

(Initial & Date)

FILE ROOM: \_\_\_\_\_

(Initial & Date)

SIG: \_\_\_\_\_

(Initial & Date)

FILE ROOM: \_\_\_\_\_

(Initial & Date)

ASSIGN TO PM: AD ✓ RD 20 BPPD \_\_\_\_\_

\_\_\_\_\_ JACKET TO SHELF (data)



# U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention  
Office of Pesticide Programs  
Registration Division (7504P)  
1200 Pennsylvania Ave., N.W.  
Washington, DC 20460

## NOTICE OF PESTICIDE:

- ☒ Registration  
☐ Reregistration  
Under FIFRA, as amended

EPA Reg. Number:

**228-722**

Date of Issuance:

**JAN 06 2014**

Term of Issuance:

**Conditional**

Name of Pesticide Product:

**NUP-12103 Fungicide**

Name and Address of Registrant (Include ZIP Code):

**Nufarm Americas Inc.**  
**4020 Aerial Center Parkway, Suite 101**  
**Morrisville, NC 27560**

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(7)(A) subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the azoxystrobin Data Call-in identified below in a timely and adequate manner and submit your responses to Kelly Ballard. DCI# GDCI-128810-892, issued on 11/9/2011. A copy of the DCI is attached.

Page 1 of 2

Signature of Approving Official:

Shaja B. Joyner, Product Manager (20)  
Fungicide Branch/Registration Division/OPP/OCSPP (7504P)

Date:

**1/6/2014**

3. You must comply with all of the data requirements in the referenced order within the deadlines established by the order. In the case of this DCI, those deadlines are measured from 11/9/2011 and the avian acute oral toxicity test has been extended through 3/15/2014. If you fail to satisfy the requirements in this Order, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e).

Make the following change to the label:

- a. Change the product registration number to "EPA Reg. No. 228-722"

Submit one copy of the revised final printed label for the record before the product is released for shipment.

The basic Confidential Statement of Formula (CSF) dated 06/28/2013 is acceptable.

If these requirements are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A copy of your label stamped "Accepted" is enclosed for your records.

Shaja B. Joyner  
Product Manager (20)  
Fungicide Branch  
Registration Division (7504P)

Enclosures:

Label stamped "Accepted"  
Product Chemistry Review dated 11/21/2013 {DP416163}

# NUP-12103 Fungicide

Broad spectrum fungicide for the control of plant diseases.

## ACTIVE INGREDIENTS

|                    |               |
|--------------------|---------------|
| Azoxystrobin*      | 13.7%         |
| Propiconazole*     | 12.0%         |
| OTHER INGREDIENTS: | 74.3%         |
| <b>TOTAL:</b>      | <b>100.0%</b> |

\*Contains 1.2 lb Azoxystrobin and 1.0 lb Propiconazole per Gallon

Contains petroleum distillates

**KEEP OUT OF REACH OF CHILDREN.**

## WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**SEE LABEL BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS**

ACCEPTED

JAN 06 2014

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under:

EPA. Reg. No. 228-722

EPA REG. NO. 228-XXX

EPA Est. No. \_\_\_\_\_

MANUFACTURED FOR  
NUFARM AMERICAS INC.  
11901 S. AUSTIN AVENUE  
ALSIP, IL 60803



NET CONTENTS: \_\_\_\_\_ (Gal.) (\_\_\_\_\_ liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

| <b>FIRST AID</b>   |  |
|--|--|
| <b>IF IN EYES</b>  | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                        |
| <b>IF SWALLOWED</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF INHALED</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>                       |
| <b>NOTE TO PHYSICIAN</b><br>May pose an aspiration pneumonia hazard. Contains petroleum distillates.   |  |
| <b>HOTLINE NUMBER</b><br>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information. |  |

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING / AVISO

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish and azoxystrobin is toxic to aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### GROUND WATER ADVISORY:

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### SURFACE WATER ADVISORY:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify State and/or Federal authorities and Nufarm immediately if you observe any adverse environmental effects due to use of this product.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL AND/OR ILLEGAL RESIDUES.**

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear

## USE PRECAUTIONS

Do not use in nurseries, greenhouses or landscape plantings.

## PRODUCT INFORMATION

This product is a broad spectrum, preventative fungicide with systemic and curative properties for the control of many important plant diseases. This product may also improve the yield and/or quality of crops.

These additional benefits are due to positive effects on plant physiology. The effects may vary according to factors such as the specific crop, crop hybrid, or environment. This product may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. Make all applications in accordance to the use directions on this label.

## USE INSTRUCTIONS

**Application:** Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

**Adjuvants:** For some uses on this label, a spreading/penetrating type adjuvant such as a non-ionic surfactant, crop oil concentrate, or blend may be added at the manufacturer's recommended rates. Adjuvants that contain some form of silicone can contribute to phytotoxicity. When an adjuvant is used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

**Crop Tolerance/Phytotoxicity:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity. Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury in barley, triticale and wheat.

**Efficacy:** Under conditions conducive to extended infection periods, use another registered fungicide for additional applications once the maximum allowable amount of this product has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, product performance may be reduced. When heavy infection pressure exists, when treating varieties highly susceptible to disease, or when environmental conditions are conducive to disease development, best results are obtained when using the higher rates and/or the shorter spray intervals allowed in the crop specific use directions on this label.

**Integrated Pest Management:** Incorporate this product into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices known to reduce the potential for disease development. The CROP SPECIFIC USE DIRECTIONS section of this label identifies specific IPM strategies for each crop. Consult your State Agricultural Experiment Station or Extension Service Specialist for additional IPM strategies established for your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

## RESISTANCE MANAGEMENT

This product contains a mixture of Group 3 (propiconazole) and Group 11 (azoxystrobin) fungicides and has two modes of action: 1) Group 3 - Demethylation inhibitor (DMI) of sterol biosynthesis which disrupts membrane synthesis; 2) Group 11 - Inhibitor of the Qo (quinone outside) site within the electron transport system which disrupts fungal respiration. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use this product in accordance with resistance management strategies established for the crop and use area. Consult your State Agricultural Experiment Station or Extension Service Specialist for resistance management strategies that complement those on this label. Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Nufarm encourages responsible resistance management practices to ensure effective long-term control of the fungal diseases on this label.

Follow crop specific recommendations that limit the total number of sprays on a crop and require rotation with fungicides from other resistance management groups. In situations requiring multiple sprays, develop season long spray programs for Group 11 QoI (quinone outside inhibiting) fungicides. For programs including the use of a QoI fungicide as a solo product, avoid making more than 1/3 (33%) of the total number of fungicide applications per season with the QoI containing product. For programs including tank mixtures or premixes of a QoI fungicide with mixing partners of a different mode of action, avoid making more than 1/2 (50%) of the total number of fungicide applications per season with the QoI containing product.

Do not alternate or tank mix this product with any fungicide to which resistance has already developed.

## ROTATIONAL CROP RESTRICTIONS

The following crops may be planted at the specified interval following application of this product.

| CROP  | PLANTBACK INTERVAL |
|---|--------------------|
| Bulb crops<br>Carrots<br>Celery (and other leaf petiole crops - subgroup 4B)<br>Cereals (wheat, barley, triticale)<br>Corn (field, seed, popcorn, and sweet)<br>Grasses grown for seed<br>Mint<br>Oats<br>Peanuts<br>Rice<br>Rye<br>Sorghum<br>Soybeans<br>Strawberries<br>Sugar beets<br>Wild rice | 0 Day              |
| Alfalfa (if propiconazole rate does not exceed 0.22 lb a.i./A per season)   | 75 Days            |
| Buckwheat<br>Millet   | 12 Months          |
| All other crops intended for food and feed  | 105 Days           |

## SPRAY DRIFT MANAGEMENT

To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

### ATTENTION

This product is extremely phytotoxic to certain apple varieties.

**AVOID SPRAY DRIFT.** Extreme care must be used to prevent injury to apple trees and apple fruit.

**DO NOT** spray this product where spray drift may reach apple trees.

**DO NOT** spray when conditions favor drift beyond the area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Consult your State Agricultural Experiment Station or Extension Service Specialist for spray drift prevention guidelines in your area.

**DO NOT** spray apple trees with spray equipment previously used to apply this product. Even trace amounts of product may cause unacceptable phytotoxicity to certain apple and crabapple varieties.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

## MIXING AND APPLICATION INSTRUCTIONS

### Spray Equipment

All types of spray equipment commonly used for ground and aerial applications may be used with this product. Ensure proper adjustment and calibration of spray equipment to obtain good canopy penetration and coverage which is essential for good disease control.



### **Nozzles**

- Equip sprayer with nozzles that provide accurate and uniform application.
- Use nozzles that are the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- Use screens 16-mesh or coarser on the suction side of the pump.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Follow nozzle manufacturer use guidelines.

### **Pump**

- Use a pump with capacity to:
  - a) Maintain 35 to 40 psi at nozzles.
  - b) Provide sufficient agitation in tank to keep mixture in suspension (use a jet agitator or liquid sparge tube for agitation).

For more information on spray equipment and calibration, consult sprayer manufacturer. For specific local directions and spray schedules, consult your State Agricultural Experiment Station or Extension Service Specialist for advice.

### **Spray Solution Preparation**

- Prepare only the amount of spray solution required for immediate use. Do not allow spray mixture to stand overnight or for prolonged periods.
- Proper mixing of this product with water requires use of a spray tank equipped with agitation.
- Thoroughly clean spray equipment before preparing the spray solution.
- Maintain constant agitation before and throughout the spraying operation.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

### **Stand-alone product solution:**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- With the agitator running, add the specified amount of this product to the tank.
- Continue agitation while adding the remainder of the water and allow time for good dispersion.
- Begin application of the spray solution after the product has completely dispersed in the mix water and maintain agitation during spraying.

### **Tank mixture with other products:**

- A. **Compatibility:** This product is compatible with many pesticides and additives commonly used in tank mixtures. Do not tank mix with other pesticides, surfactants, or fertilizers unless the mixture has been determined to be compatible and non-injurious to the crop under your conditions of use. To determine the physical compatibility of this product with tank mix partners prior to full scale use, conduct a jar test as follows: Using a quart jar, add proportionate amounts of the tank mixture components to 1 quart of water in the following order: 1) wettable powders and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, 4) additives and adjuvants. Mix thoroughly and let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been confirmed, use the same procedure for adding the tank mix partners to the spray tank.

**NOTE:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity.

### **B. Mixing instructions**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- While agitator running, add tank mix partners to the tank in the following order: 1) wettable powder and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, and 4) additives and adjuvants.
- Allow the material to completely dissolve / disperse into the mix water.

- Continue agitation while adding the remainder of the water and this product to the tank mix and allow time for good dispersion.
- Begin application of the spray mixture while maintaining agitation.

### **Application Instructions**

Observe the most restrictive of the tank mix components label limitations and precautions.

#### **Ground Application**

- For field crops (non-trees), apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.

#### **Aerial Application**

- Use only on crops where aerial application is indicated.
- For field crops (non-trees), use a minimum spray volume of 2 gallons per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For ULV applications (corn), use a minimum spray volume of 1 gallon per acre. Thorough coverage is necessary for good results. Refer to the crop specific application instructions for details regarding best practices to achieve good coverage.
- For tree crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.
- This product is extremely phytotoxic to certain apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be taken to prevent injury to apple trees (and apple fruit).
- DO NOT spray this product where spray drift may reach apple trees.

### **INSTRUCTIONS FOR USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION)**

- Use only on crops for which chemigation is specified on this label.
- Apply this product through sprinkler irrigation systems including center pivot, moving wheel, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- Non-uniform distribution of treated water may result in crop injury, lack of effectiveness, or illegal pesticide residues in the crop.
- Apply in 0.1-0.25 inches of water per acre. Excessive water may reduce efficacy.
- Contact your State Extension Service Specialist, equipment manufacturer, or other experts for questions regarding calibration.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Spray Preparation:** Thoroughly clean chemical tank and injector system. Flush system with clean water.

#### **Operating Instructions:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
8. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
9. Do not apply when wind speed favors drift beyond the target area.

#### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when applying this product through center pivot systems as it may result in non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 0.125 to 0.25 inch of water per acre over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product and sufficient water to the solution tank to meet the injection time requirements.
- Make sure the system is fully charged with water before starting injection of the spray solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant agitation of the spray solution during the injection period.
- Continue to operate the system until the spray solution has cleared the sprinkler head.

#### **Solid Set, Hand Move, and Moving Wheel Irrigation Equipment**

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the spray solution has cleared the last sprinkler head.

#### **Specific Instructions for Public Water Systems**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid

from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

## CROP SPECIFIC DIRECTIONS FOR USE

### ALMONDS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria leaf spot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum acutatum)</i><br>Leaf Blight<br><i>(Seimatosporium lichenicola)</i><br>Leaf rust<br><i>(Tranzschelia discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shot hole<br><i>(Wilsonomyces carpophilus)</i>  | 17.5 – 26                     | Apply beginning at bud break and repeat at 7- to 14-day intervals. Make no more than 2 consecutive applications before switching to a non-Group 11 fungicide.   |
| Brown Rot Blossom Blight<br><i>(Monilinia spp.)</i>   | 14 - 26                       | Apply at early bloom stage. If disease pressure is low, make a second application of 14 fl oz/A as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, treat at 50-75% bloom and petal fall if needed. Use this product for no more than 2 blossom blight applications. |
| <b>Notes:</b><br>Make no more than 2 sequential applications of a Group 11 fungicide prior to alternating with another product with a different mode of action. Almond diseases are more effectively controlled by ground application using sufficient water volume to provide thorough and uniform coverage. Aerial application may be used if necessary but disease control may be reduced. Apply by air only at growth stages prior to and including 5 weeks after petal fall. Use a minimum application volume of 15 gallons/A. |                               |   |
| <b>Use Limitations</b><br>♦ Do not apply more than 112 fl oz/A per crop.<br>♦ Do not apply more than 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Do not graze livestock in treated areas or cut treated cover crop for feed.<br>♦ Pre-harvest Interval (PHI) = 60 Days.  |                               |   |

## BANANAS, PLANTAINS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Black Sigatoka<br><i>(Mycosphaerella fijiensis)</i><br>Yellow Sigatoka<br><i>(Mycosphaerella musicola)</i>   | 10.5                          | Apply in 10-20 gallons of water/A before disease symptoms appear at the onset of the rainy season.<br>Apply by ground (minimum of 15 gal./A) or air (minimum of 5 gal./A).<br>Make no more than two (2) consecutive applications at 21- to 25- day intervals before rotating to another fungicide with a different mode of action for at least 2 sprays.<br>Do not exceed 8 applications per season. To help prevent resistance development, avoid the application of triazole pesticides for at least 2 consecutive months during periods of lower disease pressure. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply within 100 yards of non-bagged bananas.</li> <li>◆ Do not apply on bananas unless they are protected by polyethylene bags.</li> <li>◆ Do not apply on plantains if the fruit present are not protected with polyethylene bags.</li> <li>◆ Do not apply more than 84 fl oz of this product during each growing season (this includes any preharvest sprays).</li> <li>◆ Do not feed whole bananas or plantains to animals.</li> <li>◆ Do not apply more than 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.08 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> </ul> |                               |   |

## BEANS, DRY AND SUCCULENT

*Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine);

*Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean);

*Vigna* spp. (including asparagus bean, blackeyed pea and cowpea)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Alternaria blight<br><i>(Alternaria spp.)</i><br>Alternaria leaf spot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum lindemuthianum)</i><br>Ascochyta blight<br><i>(Mycosphaerella pinodes)</i><br>Ascochyta leaf and pod spot<br><i>(Ascochyta spp.)</i><br>Ascochyta leaf spot<br><i>(Ascochyta phaseolorum)</i><br>Bean rust<br><i>(Uromyces appendiculatus)</i><br>Rust<br><i>(Phakopsora spp.)</i><br>Southern blight<br><i>(Sclerotium rolfsii)</i><br>Web blight<br><i>(Rhizoctonia solani)</i>   | 10.5 - 14                     | Begin applications when conditions are conducive to disease development. Make up to 3 applications at 7- to 14-day intervals.<br><br>Apply by ground or by air.<br><br><b>NOTE:</b> Application of this product on certain bean varieties may cause crinkled and/or greener leaves. Yield reductions have not been observed in treated beans displaying these characteristics. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Not for use on cowpea cultivars intended for livestock feeding only.</li> <li>◆ Do not apply more than 42 oz. of this product/crop/A.</li> <li>◆ Do not apply more than 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI):               <ul style="list-style-type: none"> <li>• Dry bean - 14-Days</li> <li>• Succulent beans - 7 Days</li> </ul> </li> </ul> |                               |  |

### BERRIES - BUSHBERRY Subgroup 13-07B

Aronia berry; Blueberry (highbush and lowbush); Buffalo Currant; Chilean Guava; Cranberry (highbush); Currant (black and red); Elderberry; European Barberry; Gooseberry; Honeysuckle (edible); Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Lingonberry; Native Currant; Salal; Sea Buckthorn; and all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Botryosphaeria canker<br><i>(Botryosphaeria spp.)</i><br>Leaf Spot and Stem Canker<br><i>(Sepforia albopuncatata)</i><br>Leaf Spot<br><i>(Sepforia spp.)</i><br>Mummyberry<br><i>(Monilinia vaccini-cotymbosi)</i><br>Phomopsis Twig Blight, Fruit Rot,<br>and Stem Canker<br><i>(P. vaccine)</i><br>Powdery Mildew<br><i>(Microsphaera vaccinii)</i><br>Rust<br><i>(Pucciniastrum vaccinii)</i>                                   | 14 - 21                       | <p><u>For mummyberry</u>, make the first application at green tip and repeat in 7 to 10 days. If conditions are favorable for disease development, apply at pink bud and repeat applications at 7- to 10- day intervals through petal fall.</p> <p><u>For other diseases</u>: begin applications prior to disease development and continue throughout the season at 7- to 14-day intervals.</p> <p>Apply by ground or by air (minimum of 15 gal./A).</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides.</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 82 fl oz of this product/A per season.</li> <li>◆ Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |  |



### BERRIES - CANEBERRY Subgroup 13-07A

Blackberry; Bingleberry; Boysenberry; Dewberry; Loganberry; Lowberry; Marionberry; Otallieberry; Raspberry (red and black); Raspberry (wild); Youngberry; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br><i>(Spaceloma necator)</i> ,<br><i>(Elsinoe veneta)</i><br>Botryosphaeria canker<br><i>(Botryosphaeria dothidea)</i><br>Leaf and Cane Spot<br><i>(Septoria rubi)</i><br>Leaf spot<br><i>(Septoria spp.)</i><br>Powdery mildew<br><i>(Sphaerotheca macularis)</i><br>Rosette or double blossom of<br>blackberries<br><i>(Cercospora rubi)</i><br>Rust<br><i>(Phragmidium violaceum)</i>                            | 14 - 21                       | Begin applications prior to disease development and continue throughout the season at 14-day intervals.<br>Apply by ground or by air (minimum of 15 gal./A).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 105 fl oz/A of this product per crop.</li> <li>◆ Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |  |

### BERRIES – STRAWBERRIES and LOW GROWING BERRY Subgroup 13-07G (Except Cranberry)

Bearberry; Bilberry; Cloudberry; Muntries; Partridgeberry; Strawberry; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Anthracnose<br>( <i>Colletotrichum</i> spp.)<br>Leaf Rust<br>( <i>Phragmidium potentillae</i> )<br>Leaf Spot<br>( <i>Cercospora fragariae</i> )<br>Powdery Mildew<br>( <i>Sphaerotheca macularis</i> )  | 14                            | Begin applications prior to disease development and repeat at 10- to 14-day intervals.<br>Apply by ground (20 gal/A minimum) or air (15 gal./A minimum).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than four (4) applications per season of this product or any other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 0 Day.</li> </ul> |                               |   |

### BULB VEGETABLES, Crop Group 3-07

Garlic; Leek; Bulb Onion [Chinese onion (bulb); daylily (bulb); fritillaria (bulb); garlic (bulb); great-headed garlic (bulb); lily (bulb); onion (bulb); pearl onion; potato onion (bulb); serpent garlic (bulb); shallot (bulb)]; Green Onion [Beltsville bunching onion; Chinese chive (fresh leaves); chive (fresh leaves); elegans hosta; fresh onion; fritillaria (leaves); green onion; kurrat; lady's leek; leek; macrostem onion; shallot (fresh leaves); tree onion (tops); Welsh onion (tops); wild leek]; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Cladosporium leaf blotch<br>( <i>Cladosporium allii</i> )<br>Purple blotch<br>( <i>Alfemaria porri</i> )<br>Rust<br>( <i>Puccinia allii</i> )  | 14 - 21                       | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the higher rate and shorter interval when disease conditions are severe.<br>Apply by ground (15 gal./A minimum) or air (minimum of 5 gal./A).<br>Make only 1 application before alternating with a non-Group 11 fungicide. |
| Botrytis leaf blight<br>( <i>Botrytis squamosa</i> )<br>Downy mildew<br>( <i>Peronospora destructor</i> )<br>White Rot<br>( <i>Sclerotium cepivorum</i> )  | 17.5 - 26                     | <b>Note:</b> Tank mixing this product with emulsifiable concentrate (EC) formulations may result in phytotoxicity   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A per season of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>Green onions = 0 Day</li> <li>Dry bulb onions = 14 Days</li> </ul> </li> </ul> |                               |   |

## CARROT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Alternaria Leaf Blight<br><i>(Alternaria dauci)</i><br>Early blight<br><i>(Cercospora carotae)</i><br>Powdery Mildew<br><i>(Erysiphe polygoni)</i>   | 14                            | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the shorter interval when disease conditions are severe.<br><br>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation.<br><br>Do not make more than one application of this product before alternating with a non- Group 11 fungicide. |
| <b>Use Limitations:</b><br>♦ Do not apply more than 56 fl oz/A of this product per crop.<br>♦ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not apply more than 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI) = 14 Days. |                               |   |

## CELERY

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Early blight<br><i>(Cercospora apii)</i><br>Late blight<br><i>(Septoria apicola)</i>   | 14                            | Apply at 7- to 10-day intervals alternating with a fungicide that has a different mode of action.<br><br>Apply by ground, air (minimum of 5 gal/A) or chemigation.<br><br>Do not make more than one application of this product or other Group 11 fungicides before |
| <b>Use Limitations:</b><br>♦ Do not apply more than 56 fl oz/A of this product per crop.<br>♦ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>Pre-harvest Interval (PHI) = 14 Days. |                               |   |

**CEREALS\***  
**Barley, Oats, Rye, Triticale**

\* See Crop Specific Use Directions for other cereals: Cereal (wheat), Corn (Field, Pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Barley Scald<br><i>(Rhynchosporium secalis)</i><br>Barley Stripe<br><i>Pyrenophora graminea</i><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Helminthosporium Leaf Blight<br><i>(Drechslera tritici-repentis)</i><br>Kernel Blight<br><i>(Alternaria spp.)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Net blotch<br><i>(Pyrenophora feres)</i><br>Powdery Mildew<br><i>(Blumeria spp., Erysiphe spp.)</i><br>Spot Blotch<br><i>(Bipolaris sorokiniana)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>  | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>Make applications no more frequently than every 14 days.               |
| Foot Rot/Eyespot<br><i>(Tapesia spp.)</i>   | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.                                    |
| <b>Early Season Suppression</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp., Erysiphe spp.)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see above).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation. This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage. An adjuvant may be added at specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 2 applications/A per season.</li> <li>♦ Do not apply after Feekes 10.54.</li> <li>♦ Do not exceed 28 fl oz/A of this product per season.</li> <li>♦ Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 7 Days for Forage and Hay</li> <li>♦ Under certain environmental conditions, tank mixtures of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

**CEREALS \***  
**Wheat**

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Corn (field, pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Early Season Suppression</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp.)</i> ,<br><i>(Erysiphe spp.)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see below).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing.   |
| <b>Control of Leaf Diseases</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Helminthosporium Leaf Blight<br><i>(Drechslera tritici-repentis)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp.)</i> ,<br><i>(Erysiphe spp.)</i><br>Rust<br><i>(Puccinia spp.)</i><br>Spot Blotch<br><i>(Bipolaris sorokiniana)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>   | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>The minimum application interval is 14 days. Applications may continue through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues. |
| Foot Rot/Eyespot<br><i>(Tapesia spp.)</i>  | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.  |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage.  |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 2 applications/A per season.</li> <li>♦ Do not apply after Feekes 10.54.</li> <li>♦ Do not exceed 28 fl oz/A of this product per season.</li> <li>♦ Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 7 Days for Forage and Hay</li> <li>♦ Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

## Field, Pop (Including Seed Production)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Anthracnose leaf blight<br><i>(Colletotrichum graminicola)</i><br>Eye spot<br><i>(Aureobasidium zeae)</i><br>Gray leaf spot<br><i>(Cercospora zeae-maydis)</i><br>Northern corn leaf blight<br><i>(Setosphaeria turcica)</i><br>Northern corn leaf spot<br><i>(Cochliobolus carbonum)</i><br>Physoderma brown spot<br><i>(Physoderma maydis)</i><br>Rusts<br><i>(Puccinia spp.)</i><br>Southern corn leaf blight<br><i>(Cochliobolus heterostrophus)</i><br>also known as:<br>Helminthosporium leaf blights<br><i>(H. maydis, H. furcicum, H. carbonum)</i> | 10.5                          | <b>Early Application (V4 – V8)</b><br>Make an early application (V4-V8) for early season disease control and plant performance benefits.  |
| Suppression of:<br>Diplodia ear rot<br><i>(D. maydis)</i>   | 10.5 - 14                     | <b>Later Season Application</b><br><u>For gray leaf spot, rusts, anthracnose, and eye spot,</u> begin applications when disease first appears. If conditions favorable for disease persist, repeat applications at 14-day intervals.<br><u>For leaf blights:</u> apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.<br>Do not use adjuvants or other additives after the V8 growth stage and prior to the VT growth stage as use during these development stages may impose stress on the plant that could inhibit proper kernel development. VT is defined as when the last branch of the tassel is completely visible but silks have not yet emerged from the ear shoot.<br>Do not make more than two (2) applications of this product or other Group 11 fungicides per year.<br>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control. |
| <b>Notes:</b><br>Ensure thorough coverage for best results. For ULV aerial applications DO NOT use less than 1.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions do not favor good coverage.<br>Apply by ground, air (ULV), or chemigation.  |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 56 fl oz/A of this product per season.</li> <li>Do not exceed 28 fl oz (0.224 lb propiconazole a.i.) for field corn harvested for forage.</li> <li>Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 30 Days for forage, grain, and stover.</li> </ul>                             |                               |   |

## CORN \*

### Sweet Corn (Including Seed Production)

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Anthracnose leaf blight<br><i>(Colletotrichum graminicola)</i><br>Eye spot<br><i>(Aureobasidium zeae)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Northern corn leaf blight<br><i>(Setosphaeria turcica)</i><br>Northern corn leaf spot<br><i>(Cochliobolus carbonum)</i><br>Rusts<br><i>(Puccinia spp.)</i><br>Southern corn leaf blight<br><i>(Cochliobolus heterostrophus)</i>  | 10.5 - 14                     | <p>Begin applications when disease first appears. If conditions favorable for disease development persist, repeat applications at 14-day intervals.</p> <p>For leaf blights: apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.</p> <p>Alternate applications of this product with another fungicide that has a different mode of action.</p> |
| <b>Notes:</b><br>Ensure thorough coverage for best results.<br>Apply by ground, air (ULV), or chemigation.<br>For aerial applications, use of a crop oil concentrate may reduce evaporation and enhance canopy penetration and coverage. Consult your aerial applicator for effective concentrations of crop oil concentrate.<br>DO NOT use less than 1.0 GPA for ULV applications. Use higher water volumes for aerial applications if equipment and/or conditions do not favor good coverage. |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 56 fl oz/A of this product per season.<br>♦ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product..<br>♦ Pre-harvest Interval (PHI) = 14 Days for ears or forage.   |                               |   |

## CRANBERRY

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Cottonball<br><i>(Monilinia oxycocci)</i><br>Fruit rots<br><i>(Phylospora vaccinii)</i><br><i>(Glomerella cingulata)</i><br><i>(Coleophoma empetri)</i><br>Lophodermium twig blight<br><i>(Lophodermium spp.)</i>   | 14 - 21                       | Make the first application at leaf bud break and repeat 14 days later. Make additional applications at early bloom. Do not make more than two (2) consecutive sprays before alternating to a non-Group 11 fungicide.<br><br>For resistance management, make no more than 3 sprays per season using any Group 11 (QoI containing) fungicide. Under severe disease pressure, use the higher specified rate.<br><br>Apply by ground (minimum of 10 gal./A) or air (minimum of 20 gal./A). |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 84 fl oz/A of this product per crop.</li> <li>♦ Do not exceed 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 45 Days.</li> <li>♦ Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.</li> <li>♦ Do not treat cranberry fields used for aquaculture of fish and crustacea.</li> <li>♦ Do not apply to flooded crop.</li> <li>♦ Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Use care when making applications near non-target aquatic habitats.</li> <li>♦ Use is limited to Oregon, Washington, and Wisconsin only.</li> </ul> |                               |  |

## FILBERT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Eastern filbert blight<br><i>(Anisogramma anomala)</i>   | 14 - 21                       | Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.<br><br>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.<br><br><b>NOTE:</b> Applications of this product on certain varieties of filbert, may cause smaller and/or greener leaves. Yields of filbert displaying these characteristics have not been reduced due to treatment.<br><br>Apply by ground or air (minimum of 15 gal./A). |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crop for feed.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days.</li> </ul> |                               |   |



### GRASSES (Grown for Seed)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Ergot Stem Diseases<br>Powdery mildew<br>( <i>Erysiphe graminis</i> )<br>Rust<br>( <i>Puccinia</i> spp.)<br>Selenophoma Stem Eyespot<br>( <i>Selenophoma</i> spp.)  | 14 - 26                       | Apply when powdery mildew infections, <i>Selenophoma</i> infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. To maximize control of severe rust pressure, apply 26 fl. oz/A (for bluegrass apply 14 fl oz/A) at 14-day intervals until the seed is mature.<br><u>For bluegrass</u> , it is important to begin application early in the growing season.<br>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action. |
| <b>Notes:</b><br>This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. Apply by ground in a minimum of 20 gallons of water per acre or by air in a minimum of 10 gallons of water per acre.<br>Apply by ground, air, or chemigation.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 86 fl oz/A of product per season.</li> <li>◆ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not exceed 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 20 Days for seed.</li> <li>◆ Do not feed hay cut within 20 days of the last application.</li> <li>◆ Do not graze treated areas within 140 days of the last application.</li> <li>◆ Use is limited to Idaho, Minnesota, Nebraska, Oregon, and Washington only.</li> </ul> |                               |  |

### MINT Peppermint, Spearmint

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Powdery mildew<br>( <i>Erysiphe</i> spp.)<br>Rust<br>( <i>Puccinia menthae</i> )  | 10.5 - 14                     | Begin applications when the plants are 2 to 4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.<br>Apply by ground (minimum of 20 gal./A) or chemigation. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 28 fl oz/A of product per crop.</li> <li>◆ Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 7 Days.</li> </ul> |                               |   |

# PEANUT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Foliar diseases</b><br>Early leaf spot<br><i>(Cercospora arachidicola)</i><br>Late leaf spot<br><i>(Cercosporidium personatum)</i><br>Rust<br><i>(Puccinia arachidis)</i><br>Web blotch<br><i>(Phoma arachidicola)</i>  | 10.5 - 14                     | Apply beginning 35 to 40 days after planting or at the first appearance of disease. Repeat applications at 14-day intervals. Use the higher specified application rate under heavy disease pressure.<br><br>This product may be used in State Agricultural Extension advisory programs (disease forecasting) which advises on application timing based on environmental factors favorable for disease development.<br><br>Do not make more than two (2) sequential applications of this product or other Group 1 fungicides before alternating with a fungicide that has a different mode of action.   |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crofalariae)</i><br>Pythium pod rot<br><i>(Pythium myriotylum)</i>   | 21 - 28                       | Apply this product as a foliar spray approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply 28 fl oz/Acre of product. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply 21-28 fl oz/Acre of product.   |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crofalariae)</i><br>Pythium pod rot<br><i>(Pythium myriotylum)</i>   | 14 – 28                       | <b>Tank Mixture with Nufarm's NUP-08099</b><br>Apply 14 fl oz of this product in a tank mix with Nufarm's NUP-08099 or another fungicide for control of soil-borne diseases. A minimum of 0.15 lb azoxystrobin a.i./A should be used in the tank mix (refer to the rate conversion table below).<br><u>Note:</u> Do not apply more than 0.4 lb of azoxystrobin a.i./A per application.<br><br>Apply the tank mixture as a foliar spray at approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply a total of 0.3 to 0.4 lb azoxystrobin a.i. per application. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply a total of 0.2 to 0.4 lb azoxystrobin a.i. per application. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>When applying this product by chemigation or as a directed ground application, additional application methods should be employed for leaf spot control   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 56 fl oz/A of product per season.</li> <li>Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.80 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 14 Days when using a maximum application rate of 14 fl oz/A.</li> <li>Pre-harvest Interval (PHI) = 21 Days when using application rates greater than 14 fl oz/A.</li> <li>Do not feed hay from treated fields to livestock if using application rates greater than 14 fl oz/A.</li> </ul> |                               |  |

## PECANS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br><i>(Glomerella cingulata)</i><br>Downy spot<br><i>(Mycosphaerella caryigena)</i><br>Liver spot<br><i>(Gnomonia caryae pv pecanae)</i><br>Pecan scab<br><i>(Cladosporium caryigenum)</i><br>Powdery mildew<br><i>(Microsphaera penicillata)</i><br>Veln spot<br><i>(Gnomonia nerviseda)</i><br>Zonate leaf spot<br><i>(Cristulariella moricola)</i>  | 14-21                         | <p><b>For Pecan Scab:</b> Apply 14 to 21 fl oz product/A at 14-day intervals during bud break and pre-pollination sprays. Apply 20 to 21 fl oz product/A during nut formation and cover sprays. Use higher rates when disease pressure is heavier. Do not apply after shuck split.</p> <p><b>Other foliar diseases:</b> For control of mid to late season foliar diseases, apply 14 to 20.5 fl oz of this product/A in a tank mix with other fungicides registered for control of these diseases on pecans..</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control.</p> |
| <b>Notes:</b><br>Apply by ground or air (minimum of 20 gal/A).<br>For ground applications, use sufficient water to ensure thorough coverage.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 115 fl oz/A of product per season.</li> <li>◆ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 45 Days or no later than shuck split, whichever is first.</li> <li>◆ Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |  |

## PISTACHIOS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Alternaria late blight<br><i>(Alternaria alternata)</i><br>Botryosphaeria panicle and shoot blight<br><i>(Botryosphaeria dothidea)</i><br>Septoria leaf spot<br><i>(Septoria pistaciarum)</i>   | 17.5 - 21                     | <p>Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.</p> <p>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Apply by ground or air (minimum of 15 gal/A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 112 fl oz/A of product per crop.</li> <li>◆ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 60 Days.</li> <li>◆ Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |  |

## RICE (including WILD RICE) \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Aggregate Sheath Spot<br><i>(Rhizoctonia oryzae-sativae)</i><br>Black Sheath Rot<br><i>(Gaeumannomyces graminis)</i><br>Brown leaf spot<br><i>(Helminthosporium oryzae)</i><br>Kernel smut<br><i>(Tilletia barclayana)</i><br>Leaf blast<br><i>(Pyricularia grisea)</i><br>Leaf smut<br><i>(Entyloma oryzae)</i><br>Narrow brown leaf spot<br><i>(Cercospora oryzae)</i><br>Panicle blast<br><i>(Pyricularia grisea)</i><br>Sheath Blight<br><i>(Rhizoctonia solani)</i><br>Sheath Spot<br><i>(Rhizoctonia oryzae)</i><br>Stem Rot<br><i>(Sclerotium oryzae)</i><br><br><b>Disease Suppression</b><br>False Smut<br><i>(Ustilaginoidea virens)</i>   | 14-27                         | <p>Application timing depends on disease severity, disease complex, rice variety, and growth stage. Consult your State Agricultural Experiment Station or Extension Service Specialist for local economic thresholds established for various rice varieties and diseases.</p> <p><u>For Leaf Blast:</u> Apply 21 to 27 fl oz/A for preventive control.</p> <p><u>For Panicle Blast:</u> Apply at 10% head emergence followed with an application of Nufarm's NUP-08099 at 90% emergence. Refer to the label for NUP-08099 for rates and timing.</p> <p><u>All other leaf/stem diseases:</u> Apply 15.75 to 27 fl oz/A at initial sign of disease. Use higher rates when under heavy disease pressure or when environmental conditions are highly favorable for disease development. Make a second application 14 days later.</p> <p><u>Tank mix option:</u> Use 15.75 to 20.5 fl oz/A of this product in a tank mix with Nufarm's NUP-08099 or other fungicides for control of rice diseases. Use a minimum of 0.15 lb azoxystrobin a.i./A in the tank mix (refer to the rate conversion table in this label). Do not exceed 0.3 lb azoxystrobin a.i./A per application to rice or 0.25 lb azoxystrobin a.i./A per application to wild rice.</p> <p>Use the lower application rate of 14 fl oz/A for hybrids only or varieties with at least moderate resistance to sheath blight. Apply from late boot to boot split for control of diseases (except leaf blast and false smut) of rice (including wild rice). When applying prior to late boot or after boot split growth stages, use the higher rates listed above.</p> <p>Do not make more than two (2) applications of this product or other Group 11 fungicide per acre per season.</p> |
| <b>Notes:</b><br>For aerial application, use volumes of 5-10 GPA. An adjuvant may be added at label specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply to stubble or ratoon crop rice.</li> <li>♦ Do not treat rice fields where commercial farming of crayfish will be practiced.</li> <li>♦ Do not drain water from treated rice fields into ponds used for commercial fish farming.</li> <li>♦ Do not use water drained from treated fields to irrigate other crops.</li> <li>♦ Do not exceed 42 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.7 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not release floodwater within 14 days of application.</li> <li>♦ Pre-harvest Interval (PHI) = 35 Days.</li> </ul> |                               |   |

## SORGHUM \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Rice (including wild rice)

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Anthracnose<br><i>(Colletotrichum graminicola)</i><br>Ergot<br><i>(Claviceps sorghi)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Ladder Leaf Spot<br><i>(Cercospora fusimaculans)</i><br>Leaf Blight<br><i>(Exserohilum turcicum)</i><br>Zonate Leaf Spot<br><i>(Gloeocercospora sorghi)</i>  | 10.5 - 14                     | <p><u>For ergot control:</u> make the first application at or just prior to flowering. Repeat at 5- to 7-day intervals.</p> <p><u>For other diseases:</u> apply at first sign of disease. Continue applications at 14-day intervals.</p> <p>Apply by ground or air.</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 56 fl oz/A of product per crop.</li> <li>◆ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 28 fl oz (0.22 lb propiconazole a.i.) on sorghum harvested for forage.</li> <li>◆ For sorghum grown for grain and/or stover, do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ For sorghum grown for forage, do not exceed 0.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Do not graze livestock or cut for green chop or silage within 30 days of application.</li> <li>◆ Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>○ PHI = 21 Days for grain or stover</li> <li>○ PHI = 30 Days for forage</li> </ul> </li> </ul> |                               |   |

# SOYBEAN

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Aerial web blight<br><i>(Rhizoctonia solani)</i><br>Alternaria leaf spot<br><i>(Alternaria spp.)</i><br>Anthracnose<br><i>(Colletotrichum fruncatum)</i><br>Brown spot<br><i>(Septoria glycines)</i><br>Cercospora blight and leaf spot<br><i>(Cercospora kikuchii)</i><br>Frogeye leaf spot<br><i>(Cercospora sojina)</i><br>Pod and stem blight<br><i>(Diaporthe spp.)</i><br>Soybean rust<br><i>(Phakopsora pachyrhizi)</i> | 10.5 - 21                     | <p><u>Foliar diseases except rust:</u> Apply 14-21 fl oz/A at growth stage R3 (early pod set) when pods are 1/8 - 1/4 inch long) and 14 to 21 days later at growth stage R5 (pod fill). Applications may be made earlier if conditions are conducive to disease development.</p> <p><u>For soybean rust:</u> Apply 14-21 fl oz/A at first indication that disease is in the area. Use preventively for best control. Repeat applications at 14- to 21-day intervals. Use higher rate and shorter application interval when diseases are present in the field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than 2% or if disease is in mid-canopy, control will not be acceptable. Scouting for the disease and/or being aware of the proximity of the disease via monitoring systems will aid in determining the proper application timing which will maximize the effectiveness of the fungicide.</p> <p>This product may cause crinkled, smaller, and/or greener leaves on certain varieties of soybean. A reduction in yield has not been observed in treated beans displaying these characteristics.</p> |
| <b>Notes:</b><br>This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. DO NOT apply in less than 2.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions are not favorable for good coverage.<br>Apply this product by ground, air, or chemigation.  |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 42 fl oz/A of product per crop.<br>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Apply up to Stage R6.   |                               |   |

## STONE FRUIT

Apricot.; Cherry (sweet, tart); Nectarine; Peach; Plum; Plumcot; Prune; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Alternaria spot and fruit rot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum prunicola,</i><br><i>C. gloeosporioides)</i><br>Brown rot blossom blight<br><i>(Monilinia spp.)</i><br>Brown rot on fruit<br><i>(Monilinia spp.)</i><br>Cherry Leaf Spot<br><i>(Blumeriella jaapii)</i><br>Powdery mildew<br><i>(Sphaerotheca pannosa,</i><br><i>Podosphaera clandestina)</i><br>Rust<br><i>(Tranzschelia discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shot hole<br><i>(Wilsonomyces carpophilus)</i>   | 14                            | <p><u>For brown rot blossom blight:</u> apply at early bloom. If disease pressure is low, a second application may be made as needed through petal fall. Under high disease pressure and/or for very susceptible varieties, treat at 50-75% bloom and petal fall if needed.</p> <p><u>For brown rot on fruit:</u> make a maximum of 2 applications at a minimum interval of 10 days during the preharvest period up to the day of harvest.</p> <p><u>For powdery mildew, rust, and cherry leaf spot:</u> follow the blossom blight schedule. Make up to 2 additional applications at 10- to 14-day intervals from the end of petal fall to harvest.</p> <p><u>For scab:</u> begin applications at petal fall and continue at 7- to 14-day intervals.</p> <p><u>For other diseases:</u> treat at onset of disease and repeat applications at 10- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action</p> |
| <p><b>Notes:</b><br/>           Stone fruit diseases are more effectively controlled by ground applications using sufficient water volume to provide thorough and uniform coverage. Aerial application (minimum of 15 gal./A) may be used if necessary but disease control may be reduced.</p> <p>Applications to Stanley plums during bloom may cause fruit to be less oval in shape and smaller in size at harvest. If any effects on the shape and size of Stanley plums is of concern to you, do not apply this product to your Stanley plums earlier than 21 days prior to harvest.</p> |                               |   |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 70 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.56 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 0 Day.</li> </ul>   |                               |   |

## SUGAR BEET

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Cercospora leaf spot<br><i>(Cercospora beticola)</i><br>Powdery mildew<br><i>(Erysiphe polygoni)</i>  | 14                            | Begin applications preventively or on a forecast system. For powdery mildew, apply at first sign of disease.<br>Make applications at 10- to 21-day intervals. Alternate applications of this product with a non-triazole fungicide (non-Group 3) that is registered for use on sugar beets for control of these diseases. If disease pressure is high, use the highest rate and shortest spray interval specified on the label. |
| Rhizoctonia crown rot<br><i>(Rhizoctonia solani)</i>  |                               | For Rhizoctonia crown rot, apply 14 fl oz of product in a 7-inch band over the row at the 4- to 8- leaf stage.  |
| <b>Notes:</b><br>For best results, use sufficient water volume to provide thorough and uniform coverage.<br>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation (apply in 0.1 - 0.25 inch of water/Acre). Using excessive amounts of water for chemigation may reduce efficacy of the product.        |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 42 fl oz of product/Acre per season.<br>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI) = 21 Days. |                               |   |

## SUGARCANE

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Brown Rust<br><i>(Puccinia melanocephala)</i><br>Orange Rust<br><i>(Puccinia kuehnii)</i>   | 16 - 22                       | Begin applications prior to rust development and continue throughout the season at 14- to 28-day intervals. Scout fields and begin applications at the earliest sign of rust.<br>Apply by ground, air, or chemigation. |
| <b>Use Limitations:</b><br>♦ Do not exceed 88 fl oz of product/Acre per season.<br>♦ Do not exceed 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI) = 30 Days. |                               |  |



## TREE NUTS\*\*

Beechnut, Brazil Nut, Butternut, Cashew, Chesnut, Chinquapin, Hickory, Macadamia, Walnut

\*\* See Crop Specific Use Directions for Almond, Filbert, Pecan, and Pistachio

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Foliar Diseases   | 14 - 21                       | <p>Begin applications at first sign of disease and repeat applications at 7- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of this product or other Group 11 fungicides per season.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <b>Notes:</b><br>Apply by ground for best control of tree nut diseases.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days except for pecans (refer to crop specific directions for pecans)</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |   |

### RATE CONVERSION CHART

| Fluid Ounces Product/Acre | Pounds of Azoxystrobin a.i. | Pounds of Propiconazole a.i. |
|---------------------------|-----------------------------|------------------------------|
| 7                         | 0.056                       | 0.06                         |
| 10.5                      | 0.10                        | 0.08                         |
| 14.0                      | 0.13                        | 0.11                         |
| 15.75                     | 0.15                        | 0.125                        |
| 17.5                      | 0.16                        | 0.14                         |
| 21                        | 0.19                        | 0.17                         |
| 26                        | 0.24                        | 0.21                         |
| 27                        | 0.25                        | 0.22                         |
| 28                        | 0.26                        | 0.22                         |

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE** Store in original container only in a cool, dry, and well ventilated area. Keep container closed when not in use. Do not store near food or feed.

**PESTICIDE DISPOSAL:** Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

**[Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **"NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type/size."

#### **[Nonrefillable Containers 5 Gallons or Less]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

#### **[Nonrefillable containers larger than 5 gallons]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **[Refillable containers larger than 5 gallons]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR RISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product and return it unopened to the Seller, and the purchase price will be refunded.

(RV121913)

All trademarks that appear on this label which are not owned by Nufarm Americas Inc. or its subsidiaries are the property of their respective owners.

**Malone, Erin**

---

**From:** Koch, Erin  
**Sent:** Friday, January 03, 2014 9:10 AM  
**To:** Malone, Erin; Knorr, Michele  
**Cc:** Giles-Parker, Cynthia; Joyner, Shaja  
**Subject:** RE: Registration Notice Language for Azoxy/Prop product


Erin S. Koch  
Attorney-Advisor  
Pesticides and Toxic Substances Law Office Office of General Counsel USEPA  
(202) 564-1718

---

**From:** Malone, Erin  
**Sent:** Tuesday, December 31, 2013 8:27 AM  
**To:** Koch, Erin; Knorr, Michele  
**Cc:** Giles-Parker, Cynthia; Joyner, Shaja  
**Subject:** RE: Registration Notice Language for Azoxy/Prop product

Erin Malone  
Risk Manager  
EPA/OCSP/OPP/RD/FB  
(703) 347-0253

**From:** Koch, Erin  
**Sent:** Monday, December 30, 2013 3:58 PM  
**To:** Malone, Erin; Knorr, Michele  
**Cc:** Giles-Parker, Cynthia; Joyner, Shaja  
**Subject:** RE: Registration Notice Language for Azoxy/Prop product



Erin Malone  
Risk Manager  
EPA/OCSP/OPP/RD/FB  
(703) 347-0253

\*Privileged attorney-client communication\*

**Malone, Erin**

---

**From:** danielle.laroche@us.nufarm.com  
**Sent:** Thursday, December 19, 2013 9:13 AM  
**To:** Malone, Erin  
**Subject:** RE: Revisions needed for the registration of 228-TEE  
**Attachments:** 000228-00TEE.20131219.Label\_NUP-12103\_New EP.pdf

Erin,

Attached is the revised label for 228-TEE.

I will be in the office all day today and tomorrow morning if you need anything else.

Regards,

Danielle

---

**Danielle A. Larochelle - Nufarm Americas Inc.**  
**Regulatory Affairs Manager**  
4020 Aerial Center Parkway, Suite 101; Morrisville, NC 27560  
☎: (919) 379-2530; Cell: (919) 500-0925  
✉: danielle.laroche@us.nufarm.com

---

**From:** "Malone, Erin" <Malone.Erin@epa.gov>  
**To:** "danielle.laroche@us.nufarm.com" <danielle.laroche@us.nufarm.com>,  
**Date:** 12/19/2013 08:15 AM  
**Subject:** RE: Revisions needed for the registration of 228-TEE

---

Danielle,

Shaja caught an error in the First Aid section due to the fact that this product contains petroleum distillates. The "IF SWALLOWED" must read:

- Call a poison control center or doctor immediately for treatment advice
- Do not give any liquid to the person
- Do not induce vomiting unless told to by a poison control center or doctor
- Do not give anything to an unconscious person

Sorry about missing this on the first go around. If you could resubmit the label by the end of today so I can give this back to Shaja that would be great.

Thanks,  
Erin

*Erin Malone*  
*Risk Manager*  
*EPA/OCSP/OPP/RD/FB*  
*(703) 347-0253*

**From:** danielle.laroche@us.nufarm.com [mailto:danielle.laroche@us.nufarm.com]  
**Sent:** Tuesday, December 17, 2013 3:32 PM  
**To:** Malone, Erin  
**Subject:** Re: Revisions needed for the registration of 228-TEE

Erin,

Attached is the revised Certification with Respect to Citation of Data as well as the revised label. Note that I have made a few additional revisions:

- I have removed the wording "the equivalent of" in the use directions for Sugar Beet, Sugarcane, and Tree Nuts (as you have requested for the use directions on Grasses (Grown for Seed),
- Use directions for sorghum: minor formatting change

Regarding your comment in the use Storage and Disposal section, this container handling statement is for refillable containers. Therefore, the recycling and disposal information is not applicable.

Let me know if you need anything else.

Regards,

Danielle

---

Danielle A. Larochelle - Nufarm Americas Inc.  
Regulatory Affairs Manager  
4020 Aerial Center Parkway, Suite 101; Morrisville, NC 27560  
☎: (919) 379-2530; Cell: (919) 500-0925  
✉: [danielle.laroche@us.nufarm.com](mailto:danielle.laroche@us.nufarm.com)

---

**From:** "Malone, Erin" <Malone.Erin@epa.gov>  
**To:** "danielle.laroche@us.nufarm.com" <danielle.laroche@us.nufarm.com>,  
**Date:** 12/17/2013 11:03 AM  
**Subject:** Revisions needed for the registration of 228-TEE

---

Danielle,

Attached is an e-label with the revisions needed for registration of NUP-12103 Fungicide. Could you also send in a new Cert. with Respect to Citation of Data with the full product name (Fungicide is missing), but you can keep the 7/26/13 date so it lines up with the matrix. The pre-decisional due date is 12/27, but my last day in the office before the holiday is 12/19, so if you could get these revisions to me asap that would be greatly appreciated.

Let me know if you have any questions.

Thanks,  
Erin

Erin Malone  
Risk Manager  
EPA/OCSPP/OPP/RD/FB  
(703) 347-0253



[attachment "09\_000228-00XXX.2013072 Label\_NUP-12103\_New EP.EPA Comments.pdf" deleted by Danielle Larochelle/US/Nufarm]

\*\*\*\*\*

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.

Fax: +1 708 377 1333.[attachment "000228-00TEE 20131217 Label\_NUP-12103\_New EP.pdf" deleted by Danielle Larochelle/US/Nufarm]

\*\*\*\*\*

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.

Fax: +1 708 377 1333.



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.  
WASHINGTON, D.C. 20460

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## Certification with Respect to Citation of Data

|  |   |
|--|---|
| Applicant's/Registrant's Name, Address and Telephone Number<br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560      | EPA Registration Number/ File Symbol<br><br>228-TEE |
| Active Ingredient(s) and/or representative test compound(s):<br>Azoxystrobin; Propiconazole  | Date<br>July 26, 2013                               |
| General use pattern(s) (list all those claimed for this product using 40 CFR Part 158)<br>Terrestrial Food Crop; Terrestrial Feed Crops; Aquatic Food Crop | Product Name<br>NUP-12103 Fungicide                 |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

## SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

## SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

## SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data Call-In Notice is supported by all data submitted or cited in the application for registration, the form for reregistration, or this Data Call-In response. In addition, if cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original submitter or that I have obtained the written permission of the original submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

|               |                       |   |
|---------------|-----------------------|---|
| Signature<br> | Date<br>July 26, 2013 | Typed or Printed Name and Title<br>Danielle A. Larochelle<br>Registration Manager |
|---------------|-----------------------|---|

## Malone, Erin

---

**From:** danielle.laroche@us.nufarm.com  
**Sent:** Tuesday, December 17, 2013 3:32 PM  
**To:** Malone, Erin  
**Subject:** Re: Revisions needed for the registration of 228-TEE  
**Attachments:** 000228-00TEE.20130726.CertWRTCD 8570-34 (rev).pdf;  
000228-00TEE.20131217.Label\_NUP-12103\_New EP\_Tracking on.pdf;  
000228-00TEE.20131217.Label\_NUP-12103\_New EP.pdf

Erin,

Attached is the revised Certification with Respect to Citation of Data as well as the revised label. Note that I have made a few additional revisions:

- I have removed the wording "the equivalent of" in the use directions for Sugar Beet, Sugarcane, and Tree Nuts (as you have requested for the use directions on Grasses (Grown for Seed),
- Use directions for sorghum: minor formatting change

Regarding your comment in the use Storage and Disposal section, this container handling statement is for refillable containers. Therefore, the recycling and disposal information is not applicable.

Let me know if you need anything else.

Regards,

Danielle

---

Danielle A. Larochelle - Nufarm Americas Inc.  
Regulatory Affairs Manager  
4020 Aerial Center Parkway, Suite 101; Morrisville, NC 27560  
☎: (919) 379-2530; Cell: (919) 500-0925  
✉: [danielle.laroche@us.nufarm.com](mailto:danielle.laroche@us.nufarm.com)

---

**From:** "Malone, Erin" <[Malone.Erin@epa.gov](mailto:Malone.Erin@epa.gov)>  
**To:** "[danielle.laroche@us.nufarm.com](mailto:danielle.laroche@us.nufarm.com)" <[danielle.laroche@us.nufarm.com](mailto:danielle.laroche@us.nufarm.com)>,  
**Date:** 12/17/2013 11:03 AM  
**Subject:** Revisions needed for the registration of 228-TEE

---

Danielle,

Attached is an e-label with the revisions needed for registration of NUP-12103 Fungicide. Could you also send in a new Cert. with Respect to Citation of Data with the full product name (Fungicide is missing), but you can keep the 7/26/13 date so it lines up with the matrix. The pre-decisional due date is 12/27, but my last day in the office before the holiday is 12/19, so if you could get these revisions to me asap that would be greatly appreciated.

Let me know if you have any questions.

Thanks,  
Erin

Erin Malone  
Risk Manager  
EPA/OCSP/OPP/RD/FB  
(703) 347-0253

[attachment "09\_000228-00XXX.20130724.Label\_NUP-12103\_New EP.EPA Comments.pdf" deleted by Danielle  
Larochelle/US/Nufarm]

\*\*\*\*\*

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 708 377 1333.

# NUP-12103 Fungicide

Broad spectrum fungicide for the control of plant diseases.

## ACTIVE INGREDIENTS

Azoxystrobin \* 13.7%

Propiconazole \* 72.0%

OTHER INGREDIENTS 7d.3%

TOTAL 100.0%

\*Contains 1.2 lb Azoxystrobin and 1.0 lb Propiconazole per Gallon



KEEP OUT OF REACH OF CHILDREN.

## WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

SEE LABEL BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1340

EPA REG. NO. 228-XXX

EPA Est. No. \_\_\_\_\_

MANUFACTURED FOR  
NUFARM AMERICAS INC.  
11901 S. AUSTIN AVENUE  
ALSP, IL 60803



NET CONTENTS: \_\_\_\_\_ (Gal.) ( \_\_\_\_\_ liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

000228-00XXX.20130726.Label\_NUP-12103\_New EP

| FIRST AID   |  |
|---|--|
| IF IN EYES  | <ul style="list-style-type: none"> <li>Hold eye open and flush slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue flushing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>                                       |
| IF SWALLOWED  | <ul style="list-style-type: none"> <li>Call a poison control center or doctor for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul> |
| IF ON SKIN OR CLOTHING  | <ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison-control center or doctor for treatment advice.</li> </ul>  |
| IF INHALED  | <ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>                                       |
| <p><b>HOTLINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information.</p> |  |

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING / AVISO

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
  - Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or neoprene
  - Shoes plus socks
  - Protective eyewear (goggles, face shield, or safety glasses)
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(5)), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing if PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Page: 2

|                           |                      |                             |
|---------------------------|----------------------|-----------------------------|
| Author: emilene           | Subject: Safety Note | Date: 12/16/2011 1:01:28 PM |
| Editor: Jose L. Rodriguez | Subject: Safety Note | Date: 12/16/2011 1:06:01 PM |
| Author: emilene           | Subject: Safety Note | Date: 12/16/2011 1:06:01 PM |
| Editor: Jose L. Rodriguez | Subject: Safety Note | Date: 12/16/2011 1:06:01 PM |
| Author: emilene           | Subject: Safety Note | Date: 12/16/2011 1:06:01 PM |
| Editor: Jose L. Rodriguez | Subject: Safety Note | Date: 12/16/2011 1:06:01 PM |



[REDACTED]

Mainly State and/or Federal authorities and Nulam immediately if you observe any adverse environmental effects due to use of this product.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL AND/OR ILLEGAL RESIDUES.**

## AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its label and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear

## USE PRECAUTIONS

**Do not use in nurseries, greenhouses or landscape plantings.**

## PRODUCT INFORMATION

This product is a broad spectrum, preventative fungicide with systemic and curative properties for the control of many important plant diseases. This product may also improve the yield and/or quality of crops. These additional benefits are due to positive effects on plant physiology. The effects may vary according to the factors such as the specific crop, crop hybrid, or environment. This product may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. Make all applications in accordance to the use directions on this label.

**USE INSTRUCTIONS**

**Application:** Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

Author: emabone Subject: Highgate Date: 12/16/2017 1:05:01 PM

Author: emapone  
Subject: Study Note  
Date: 12/16/14 1:11:29 PM  
Revised to read:

<sup>2</sup>Acetylcholinesterase and propionylcholinesterase are found in freshwater and estuarine invertebrates. Acetylcholinesterase can be persistent for several months or longer.

**For terrestrial uses:** Do not apply directly to water, or to areas where surface water is present, or to flooded areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or mixtures.

**DISCOUNT VENDOR ADVISORY:**  
Acetaminophen and other doses of acetaminophen are known to leach through soils to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**SURFACE WATER ADJUSTMENT**

has productively impacted the water quality over 100 years ago. This is especially true in the case of agriculture, a field with many potential water quality issues. This product has shown a high potential for reaching surface water via runoff for several months or more after application. A third, well-maintained vegetation buffer strip between the product and the water body, such as ponds, streams, and springs, will reduce the potential loading of herbicides and is a key element of any water quality management plan. The use of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Author: zmrakina Subject: HighLight Date: 12/10/2011 1:12:45 PM

**Subject:** HighLight

Case: 17-1072011 1:16-45 PM

This page contains no comments

**Adjuvants:** For some uses on this label, a spread/penetrating type adjuvant such as a non-ionic surfactant, crop oil concentrate, or blend may be added at the manufacturer's recommended rates. Adjuvants that contain some form of silicone can contribute to phytotoxicity. When an adjuvant is used with this product, the use of an adjuvant that meets the standards of the Chemical Products and Distributors Association (CPDA) adjuvant certification program is recommended.

**Crop Tolerance/Phytotoxicity:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some form of silicone may also contribute to phytotoxicity. Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury in barley, linseed and wheat.

**Efficacy:** Under conditions conducive to extended infection periods, use another registered fungicide for additional applications once the maximum allowable amount of this product has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, product performance may be reduced. When heavy infection pressure exists, when treating varieties highly susceptible to disease, or when environmental conditions are conducive to disease development, best results are obtained when using the higher rates and/or the shorter spray intervals allowed in the crop specific use directions on this label.

**Integrated Pest Management:** Incorporate this product into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices known to reduce the potential for disease development. The CROP SPECIFIC USE DIRECTIONS section of this label identifies specific IPM strategies for each crop. Consult your State Agricultural Experiment Station or Extension Service Specialist for additional IPM strategies established for your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

#### RESISTANCE MANAGEMENT

This product contains a mixture of Group 3 (propiconazole) and Group 11 (azoxystrobin) fungicides and has two modes of action: 1) Group 3 - Demethylation inhibitor (DMI) of sterol biosynthesis which disrupts membrane synthesis; 2) Group 11 - Inhibitor of the C<sub>6</sub> (guanine oxidase) site within the electron transport system which disrupts fungal respiration. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use this product in accordance with resistance management strategies established for the crop and use area. Consult your State Agricultural Experiment Station or Extension Service Specialist for resistance management strategies that complement those on this label. Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Nufarm encourages responsible resistance management practices to ensure effective long-term control of the fungal diseases on this label.

Follow crop specific recommendations that limit the total number of sprays on a crop and require rotation with fungicides from other resistance management groups. In situations requiring multiple sprays, develop season long spray programs for Group 11 C<sub>6</sub> (guanine oxidase inhibiting) fungicides. For programs including the use of a C<sub>6</sub> fungicide as a solo product, avoid making more than 1/3 (33%) of the total number of fungicide applications per season with the C<sub>6</sub> containing product. For programs including tank mixtures or premixes of a C<sub>6</sub> fungicide with mixing partners of a different mode of action, avoid making more than 1/2 (50%) of the total number of fungicide applications per season with the C<sub>6</sub> containing product.

Do not alternate or tank mix this product with any fungicide to which resistance has already developed.



This page contains no comments

#### ROTATIONAL CROP RESTRICTIONS

The following crops may be planted at the specified interval following application of this product.

| CROP  | PLANTBACK INTERVAL |
|---|--------------------|
| Bulb crops<br>Carrots<br>Celery (and other leaf petiole crops - subgroup 4B)<br>Cereals (wheat, barley, triticale)<br>Corn (field, seed, popcorn, and sweet)<br>Grasses grown for seed<br>Mint<br>Oats<br>Peanuts<br>Rice<br>Rye<br>Sorghum<br>Soybeans<br>Strawberries<br>Sugar beets<br>Wild rice | 0 Day              |
| Alfalfa (if propiconazole rate does not exceed 0.22 lb a.i./A per season)   | 75 Days            |
| Buckwheat<br>Millet   | 12 Months          |
| All other crops intended for food and feed  | 15 Days            |

#### SPRAY DRIFT MANAGEMENT

To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**

#### ATTENTION

This product is extremely phytotoxic to certain apple varieties.

**AVOID SPRAY DRIFT.** Extreme care must be used to prevent injury to apple trees and apple fruit.

DO NOT spray this product where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond the area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Consult your State Agricultural Experiment Station or Extension Service Specialist for spray drift prevention guidelines in your area.

DO NOT spray apple trees with spray equipment previously used to apply this product. Even trace amounts of product may cause unacceptable phytotoxicity to certain apple and crabapple varieties.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

#### MIXING AND APPLICATION INSTRUCTIONS

##### Spray Equipment

All types of spray equipment commonly used for ground and aerial applications may be used with this product. Ensure proper adjustment and calibration of spray equipment to obtain good canopy penetration and coverage which is essential for good disease control.

#### **Nozzles**

- Equip sprayer with nozzles that provide accurate and uniform application.
- Use nozzles that are the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- Use screens 16-mesh or coarser on the suction side of the pump.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Follow nozzle manufacturer use guidelines.

#### **Pump**

- Use a pump with capacity to:
  - a) Maintain 35 to 40 psi at nozzles.
  - or Provide sufficient agitation in tank to keep mixture in suspension (use a jet agitator or liquid sparge tube for agitation).

For more information on spray equipment and calibration, consult sprayer manufacturer. For specific local directions and spray schedules, consult your State Agricultural Experiment Station or Extension Service Specialist for advice.

#### **Spray Solution Preparation**

- Prepare only the amount of spray solution required for immediate use. Do not allow spray mixture to stand overnight or for prolonged periods.
- Proper mixing of this product with water requires use of a spray tank equipped with agitation.
- Thoroughly clean spray equipment before preparing the spray solution.
- Maintain constant agitation before and throughout the spraying operation.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinse by application to an already treated area.

#### **Stand-alone product solution:**

- Add  $\frac{1}{4}$  to  $\frac{1}{2}$  of the required amount of water to a spray or mixing tank and begin agitation.
- With the agitator running, add the specified amount of this product to the tank.
- Continue agitation while adding the remainder of the water and allow time for good dispersion.
- Begin application of the spray solution after the product has completely dispersed in the mix water and maintain agitation during spraying.

#### **Tank mixture with other products:**

- A. **Compatibility:** This product is compatible with many pesticides and additives commonly used in tank mixtures. Do not tank mix with other pesticides, surfactants, or fertilizers unless the mixture has been determined to be compatible and non-injurious to the crop under your conditions of use. To determine the physical compatibility of this product with tank mix partners prior to full scale use, conduct a jar test as follows: Using a quart jar, add proportionate amounts of the tank mixture components to 1 quart of water in the following order: 1) wettable powders and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, 4) additives and adjuvants. Mix thoroughly and let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been confirmed, use the same procedure for adding the tank mix partners to the spray tank.

**NOTE:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity.

#### **B. Mixing Instructions**

- Add  $\frac{1}{4}$  to  $\frac{1}{2}$  of the required amount of water to a spray or mixing tank and begin agitation.
- While agitator running, add tank mix partners to the tank in the following order: 1) wettable powder and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, and 4) additives and adjuvants.
- Allow the material to completely dissolve / disperse into the mix water.

This page contains no comments

- Continue agitation while adding the remainder of the water and this product to the tank mix and allow time for good dispersion.
- Begin application of the spray mixture while maintaining agitation.

#### Application Instructions

Observe the most restrictive of the tank mix components label limitations and precautions.

##### Ground Application

- For field crops (non-trees), apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.

##### Aerial Application

- Use only on crops where aerial application is indicated.
- For field crops (non-trees), use a minimum spray volume of 2 gallons per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For ULV applications (corn), use a minimum spray volume of 1 gallon per acre. Thorough coverage is necessary for good results. Refer to the crop specific application instructions for details regarding best practices to achieve good coverage.
- For tree crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.
- This product is extremely phytotoxic to certain apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be taken to prevent injury to apple trees (and apple fruit).
- DO NOT spray this product where spray drift may reach apple trees.

#### INSTRUCTIONS FOR USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION)

- Use only on crops for which chemigation is specified on this label.
- Apply this product through sprinkler irrigation systems including center pivot, moving wheel, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- Non-uniform distribution of treated water may result in crop injury, lack of effectiveness, or illegal pesticide residues in the crop.
- Apply in 0.1-0.25 inches of water per acre. Excessive water may reduce efficacy.
- Contact your State Extension Service Specialist, equipment manufacturer, or other experts for questions regarding calibration.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label/prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Spray Preparation:** Thoroughly clean chemical tank and injector system. Flush system with clean water.

##### Operating Instructions:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection device must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

This page contains no comments

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
8. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
9. Do not apply when wind speed favors drift beyond the target area.

#### Center Pivot Irrigation Equipment

Notes: (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when applying this product through center pivot systems as it may result in non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 0.125 to 0.25 inch of water per acre over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-85% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product and sufficient water to the solution tank to meet the injection line requirements.
- Make sure the system is fully charged with water before starting injection of the spray solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant agitation of the spray solution during the injection period.
- Continue to operate the system until the spray solution has cleared the sprinkler head.

#### Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product into the same quantity of water used to calibrate the injection band.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the spray solution has cleared the last sprinkler head.

#### Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid

This page contains no comments

from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

## ALMONDS

| Target Disease  | Use Rate<br>(% or products) | Application instructions  |
|---|-----------------------------|---|
| Asterisks next to<br>reference<br>(Carbamethionate acetylcholinesterase)<br>leaf miner<br>(Translucent discolor)<br>Scale<br>Coccidiosis/carpenter<br>Bacterial<br><i>(Nematocystis sp.)</i>  | 1:5 - 20                    | Apply beginning at bud break and repeat at 7- to 14-day intervals. Mix to more than 2 consecutive applications before switching to a non-drug fungicide.  |
| Brown Spot<br>(Mature spot)   | 1:4 - 25                    | Apply at early bloom stage. If disease pressure is low, make a second application of 1d buds as soon as petals fall. Under conditions of severe petal drop or very susceptible varieties, level of 6d or 7d flower and petal fall is needed. Use no product for more than 2 weeks after light applications. |
| Notes:<br>Make no more than 2 sequential applications of a Group I fungicide prior to alternating with another product with a different mode of action. Around 90% of the foliage may be covered. Fungicide control may be reduced. Apply by air only at growth stages prior to and including 5 weeks after petal fall. Use maximum application volume of 75 gallons/ha.<br>Use Limitations:<br>Do not apply more than 1:2 a rate per crop.<br>Do not apply more than 1:2 a rate per acre; there are approximately six acres per acre.<br>Do not apply more than 1:5 in suspension with water. Watering during critical.<br>Do not place livestock in treated areas or eat treated cover crop or feed.<br>Preharvest interval (PHI) = 00 days |                             |   |

[illegible][illegible]

Page 12



Apple being Blauberry (highbush, and lowbush), Buffalo Currant; Chagall Currant, Greenberry (highbush); Nuttall's black currant; Elderberry, European Ribwort, Gooseberry, Monogrovels (lowbush); Hackberry, Jostaberry, Tunesberry, Tunesbush, Saskatoon berry, Ungava Currant; and See Blackberry, and all currants, varieties, and/or hybrids of these.

| Target Disease   | Use Rate<br>(in production) | Application Instructions   |
|--|-----------------------------|--|
| <p>Botrytis rot (center blight)</p> <p>Leaf Spot and Stem Rot</p> <p>(rotation recommended)</p> <p>Leaf Spot</p> <p>(if severe spot)</p> <p>Alternaria (blackspot)</p> <p>Phoma (leaf blight, fruit rot)</p> <p>Gray mold</p> <p>if wetland</p> <p>Downy Mildew</p> <p><i>Alternaria</i> (brown rot)</p> <p>Rust</p> <p>(rotation essential)</p> | 14 - 21                     | <p>For maximum effect, make the first application 7 to 14 days before harvest. If conditions are favorable for disease development, spray at 7 to 14 day intervals. Do not spray more than 3 times per season. Do not spray more than twice in 14 days per crop. Do not spray more than twice in 14 applications per crop of the product or other Group 11 fungicides.</p> <p>Apply by ground only at a minimum of 15 gal/A.</p> <p>Do not mix this product for consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not mix more than two (2) applications per crop of the product or other Group 11 fungicides.</p> |

Page 14

**Bearberry, Elderberry, Cloudberry, Mulberry, Partridgeberry, Strawberry, as Cuckiats, Vassilias, and/or Hybrids of these**

**Beerberry, Ebony, Cloudberry, Maudslayi, Partridgeberry, Strawberry, all Cultivars, Varieties, and/or Hybrids of Shrub**

| Taxid ID#9844   | Use Side<br>ID or product(s) | Application Instructions   |
|---|------------------------------|--|
| <p><b>Aztreonam</b><br/>(Aztreonam spp.)<br/><i>Aztreonam</i> (paranobe)<br/>and Scept<br/>(aztreonam / zampox)<br/>Do not follow<br/>this application instruction.</p>   | 14                           | <p>Begin applications prior to disease development and repeat at 7-10 day intervals.<br/>Apply by ground (20 ml/m<sup>2</sup> minimum) or air (35 gal/m<sup>2</sup> minimum).<br/>Do not make more than 42 consecutive applications of this product alternating with a non-group 11 fungicide. Do not make more than four (4) applications of this product or any other Group 11 fungicides.</p> |
| <p><b>Used Alternatives:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 66 fl oz/a at this product per crop.</li> <li>• Do not apply more than 45 lb azoxystrobin e.a./A per acre from any pre-harvest weed-killing product.</li> <li>• Do not apply more than 3.0 lb azoxystrobin 1.0% per season from any azoxystrobin-containing product.</li> </ul> <p>Freshness Interval: 12 m Day.</p> |                              |  |

### BUILD VEGETABLES, Grow Group 3-QT

[illegible]

| Target Disease   | Use Rate<br>[or product A] | Application Instructions  |
|--|----------------------------|---|
| Cold/Influenza-like viruses<br>(Asthma)<br>(Allergic rhinitis)<br>(Hay fever)<br>(Fungal skin infections)  | 3-4 - 23                   | Begin applications when conditions favor disease development and continue throughout the season at 7-10 day intervals. Use the highest rate and shortest interval when disease onsets are severe.<br>Apply by ground or aerial application at 5 gpa/ha. |
| Bacterial leaf blight<br>(Bacterial wilt)<br>(Bacterial speckling)<br>(Bacterial blight)<br>(Bacterial canker)<br>(Bacterial necrosis)<br>(Bacterial rot)<br>(Bacterial wilt)  | 3.75 - .20                 | Make only 1 application before alternating with a non-group 13 fungicide.<br>Note: Treating the product with emulsifiable concentrates (EC) formulations may result in phytotoxicity.   |
| Use Limitations:<br><ul style="list-style-type: none"> <li>- Do not apply more than 56 fl oz/a per season of this product per crop.</li> <li>- Do not apply more than 60 fl oz/a per season when no propagule-free seedling product.</li> <li>- Do not apply more than 60 fl oz/a per season when dry down to commercial harvest product.</li> <li>- Pre-harvest Interval (PHI)</li> <li>- Greenhouse = 0 Day</li> <li>- Dry bulb crotos = 310 days</li> </ul> |                            |   |

CARROT

| Target Disease  | Use Rate<br>(% of product) | Application Instructions  |
|---|----------------------------|---|
| <p><b>Ascochyta Leaf Blight</b><br/>(<i>Ascochyta blight</i>)<br/><b>Early blight</b><br/>(<i>Alternaria carotae</i>)<br/><b>Post-harvest rot</b><br/>(<i>Botrytis cinerea</i>)</p> | 14                         | <p>Apply applications when conditions favor disease development and continue throughout the season at 10-14 day intervals. Stop the disease control program when disease conditions are severe.</p> <p>Apply by ground (minimum of 15 gpl/ai), air (minimum of 5 gpl/ai), or overhead.</p> <p>Do not make more than one application of this product before alternating with a non-Group 11 fungicide.</p> |

- Use Limitations:**
- Do not apply more than 50 lbs of this product per crop.
  - Do not apply more than 2 lbs of this product per acre per season from any pre-harvest or post-harvest application.
  - Do not apply more than 1.5 lbs of this product per acre per season from any pre-harvest or post-harvest application.
  - Pre-harvest Interval (PHI) = 14 Days.

CELERY

| Target Disease   | Use Rate<br>(% of product) | Application Instructions   |
|--|----------------------------|--|
| <p><b>Early blight</b><br/>(<i>Alternaria carotae</i>)<br/><b>Late blight</b><br/>(<i>Phytophthora blight</i>)</p> | 14                         | <p>Apply at 7- to 10-day intervals alternating with a fungicide that has a different mode of action.</p> <p>Apply by ground, air (minimum of 5 gpl/ai), or overhead.</p> <p>Do not make more than one application of this product or other Group 11 fungicides per season.</p> |

- Use Limitations:**
- Do not apply more than 50 lbs of this product per crop.
  - Do not apply more than 2 lbs of this product per acre per season from any pre-harvest or post-harvest application.
  - Do not apply more than 1.5 lbs of this product per acre per season from any pre-harvest or post-harvest application.
  - Pre-harvest Interval (PHI) = 14 Days.

Page 17

Page 16

Page 19

## Sweet Corn (including Seed Production)

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field), popl. Rice (landrace) and Root Sorghum

| Target Disease   | Use And/or Product | Application Instructions  |
|--|--------------------|---|
| <p><b>Arthropod-borne viral (AV) diseases</b><br/> <i>(Dengue, chikungunya, zika)</i><br/> <i>(Arthropod-borne zoonotic)</i><br/>                     (Key host spot)<br/>                     (Chickens, turkeys)<br/>                     (Pigs, swine)<br/>                     (Ruminants, deer, wild ruminants)<br/>                     (Wild birds, waterfowl)<br/>                     (Northern cane leaf spot)<br/>                     (Cockatiels, budgies, corymorax)<br/>                     (Pigeons, doves, parrots)<br/>                     (Cattle, horses, sheep)<br/>                     (Goats, deer, wild ruminants)<br/>                     (Domestic and feral swine)<br/>                     (Domestic and feral birds)<br/>                     (Carnivorous teleosts/fish)</p>   | 10:5 - 14          | <p>Begin applications when disease first appears. If conditions conducive for disease development persist, repeat applications at 14-day intervals.</p> <p>For <b>fish</b>, <b>infect</b> apply when disease first appears. A good application at 7 to 14-day intervals. Use the lowest rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.</p> <p>Alternate applications of this product with another fungicide with has a different mode of action.</p> |
| <p><b>Nitrate</b></p> <p>Ensure thorough coverage for these results:</p> <ul style="list-style-type: none"> <li>Apply by pump, air, or (if necessary) backpack.</li> <li>Use the lowest rate possible that will provide adequate concentrations of ions in the water.</li> <li>DO NOT use less than 10 GPM for VLY applications.</li> <li>Use higher water volumes for initial applications if equipment and/or conditions do not favor good coverage.</li> </ul> <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>Do not exceed 20 lb of salt or the product per season.</li> <li>Do not exceed 20 lb of salt or the product per acre from any progressive/continuous product.</li> <li>Do not exceed 2 lb of azoxystrobin A.I. per season from any azoxystrobin-containing product.</li> <li>File-based interval (FI) = 14 Days for salts or <i>fungi</i>.</li> </ul> |                    |   |



| Target Diseases  | Use Rate (lb or product/A) | Application Instructions  |
|--|----------------------------|---|
| <b>Controlled (susceptible)</b><br><b>First use:</b><br>(Physodan suspension)<br>(Dowicide original)<br>(Dowicide original)<br>(Dowicide original)<br>Use 100% tank mix  | 13-27                      | Make the first application at least 10 days and repeat 14 days later. Make additional applications at 14-day intervals. Do not make more than two (2) consecutive sprays before alternating to a non-susceptible fungicide.<br><br>For orchards susceptible to more than 3 species, spray within any Group 11 (low overwintering) fungicide. Under severe disease pressure, use the higher specified rate.<br><br>Apply by ground (minimum of 10 gal/A) or by airplane (at 20 gal/A). |
| <b>Use Limitations:</b><br>• Do not exceed 4.1 oz/A of the product per crop.<br>• Do not exceed 4.1 lb of prochloraz in a full per season from any prochloraz-containing product.<br>• Do not use in combination with any fungicide containing a triazole fungicide.<br>• Do not allow re-entry of irrigation or flood water to non-logged aquatic habitat for at least 14 days after the last application.<br>• Do not treat existing fields used for aquaculture of fish and crayfishes.<br>• Do not apply to sensitive areas.<br>• Do not use in low water conditions (low depth) from treated areas by non-target aquatic habitat. Use care when making applications near non-target aquatic habitats. |                            | Use care when making applications near non-target aquatic habitats.   |

[illegible]

| Target Disease   | Use Rate<br>lb or product/acre | Application Instructions   |
|--|--------------------------------|--|
| Early Blight<br>Late Blight<br>Fungal Blight<br>( <i>Alternaria solani</i> )<br>Rust<br>( <i>Puccinia blight</i> )<br>Late Blight<br>( <i>Phytophthora blight</i> )<br>( <i>Phytophthora</i> spp.) | 14-26                          | <p>Apply when powdery mildew, rust, late blight, and/or other diseases are noticeable and 20-30% of the leaves are affected. Do not apply if temperatures are below 50°F. Apply at 14 to 26 lb/acre, depending on leaf wetness and the use of fungicides. Do not attempt to begin application early in the growing season.</p> <p>Do not apply more than two (2) sequential applications of this product or other Group 11 fungicides, alternating with fungicides that have a different mode of action.</p> |

Notes:

- The product is most effective when applied as directed to dry before rainfall. Rainfall through coverage for best results. Apply by ground in a minimum of 250 gpm/acre.
- Apply by ground, air, or chemigation.
- Do not exceed 3.6 lb/acre of product per season.
- Do not exceed 3.6 lb/acre of DfB in any application. A 1 lb/A per season from any fungicide-containing product.
- Do not exceed 3.6 lb/acre of DfB in any application. A 1 lb/A per season from any fungicide-containing product.
- Do not feed any crop within 20 days of the last application.
- Do not graze treated areas within 140 days of the last application.
- Use on fruits (e.g. Apple, Apricot, Peach, Pear, Plum, and Strawberry) only.
- Use on fruits (e.g. Apple, Apricot, Peach, Pear, Plum, and Strawberry) only.

| Target Disease  | Use Page<br>(# of products) | Application Instructions   |
|---|-----------------------------|--|
| Primary myeloid leukemia (MDS, APL, MDS/MPN overlap)  | MDS: 1-4                    | Begin applications when the platelet count is 2 or 3 (risk of signs of when conditions become favorable for effective administration). After a second application (2 days after the first application).<br>Apply to broad spectrum of treatment (e.g., graft or chemotherapy). |
| <b>Preventive Hematopoietic</b>   |                             |  |
| Use for Leukemia:   |                             |  |
| • Do not exceed 2.25 mg/kg of body weight per day   |                             |  |
| • Do not exceed 2.25 mg/kg of body weight per session from any product with coating agent.    |                             |  |
| • Do not exceed 0.75 mg/kg of body weight per session from any aqueous (non-coating) product. |                             |  |
| Preventive Hematopoietic (MDS) = 7 Days   |                             |  |

[illegible]

**Taught Differently**[illegible]

Apply 1 pound or as minimum of 20 gal/A.  
For ground applications, use sufficient water to ensure thorough coverage.

Use 1/2 bushel of product per season.

- Do not exceed 1 1/2 bushels of product per season.
- Do not exceed 4 g/b bushel of product per season from any postemergence seedling product.
- Do not exceed 7.2 g/b bushel of product per season from any acetolactate-inhibiting product.
- Pre-Mixed Use: 1000 ppm = 55 Days or no later than which you wish to use it. Feed
- Do not graze livestock in treated areas or eat treated cover crops fed.

| Target Diseases   | Use Rate<br>(lb or product/ha) | Application Instructions   |
|---|--------------------------------|--|
| <p>Downy mildew (downy blight)</p> <p>Responsible for significant economic damage in soybean production</p> <p>Apply before or after flowering</p> <p>Severe leaf spot</p> <p><i>(Control program)</i></p>  | 17.5 - 21                      | <p>Begin application when downy mildew is first observed and repeat application at 14 to 21-day intervals. Under severe disease conditions, spray the higher end of the rate range.</p> <p>Do not make more than two (2) sequential applications of the product or other Group I fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Apply by ground or as minimum of 15 gal./ha.</p> |
| <p>Leaf Lesioning</p> <p>Do not exceed 1.2 lb aza of product per crop.</p> <p>Do not exceed 4.5 lb propanil as a/a per season from any propanil-containing product.</p> <p>Do not exceed 1.5 lb propanil as a/a per season from any azoxystrobin-containing product.</p> <p>Do not spray broadcast in raised rows or cultivated cover crops in field.</p> |                                |  |

Yell cannot make more than 2 applications of this product: not dependent on technique used.

[illegible]

This page contains no comments

| SORGHUM *  |                               |   |
|--|-------------------------------|---|
| * See Crop-Specific Use Directions for other cereals. Cereals (barley, oats, rye, sorghum), Cereal (millet), Corn (flint, pop), Corn (sweet), Rice (producing and non)   |                               |   |
| Target Disease   | Use Rate<br>(lb or product/A) | Application Instructions  |
| Anthracnose<br>( <i>Colletotrichum graminicola</i> )<br>Ergot<br>( <i>Strombospora maydis</i> )<br>Grain leaf spot<br>( <i>Peridermium sorghii</i> )<br>Leaf blight<br>( <i>Erysiphe polygoni</i> )<br>Leaf sheath blight<br>( <i>Erysiphe polygoni</i> )<br>Zonate leaf spot<br>( <i>Dothiorella sorghii</i> )  | 0.3 - 1.4                     | For ergot control, make the final application at or just prior to flowering. Repeat at 5- to 7-day intervals.<br>For other diseases, apply at 10- to 14-day intervals.<br>Apply by ground or air. |
| * Use Limitations:<br>• Do not exceed 1.4 lb/A of product per crop.<br>• Do not exceed 0.45 lb/A of product per A for any season from any application containing product.<br>• Do not apply more than 26 fl oz (0.23 lb) of product per A for any season from any application containing product.<br>• For sorghum grown for grain under no-till, do not exceed 0.15 lb/A of product per A for any season from any application containing product.<br>• Do not apply more than 26 fl oz (0.23 lb) of product per A for any season from any application containing product.<br>• Do not graze livestock or cut for green chop or silage within 30 days of application.<br>• Pre-harvest interval (PHI):<br>o PHI = 21 Days for grain or silage<br>o PHI = 30 Days for hay |                               |   |

[illegible]

## STONE FRUIT

[illegible]



SUGAR BEET

| Target Disease  | Use Rate (lb oz per acre) | Application Instructions  |
|---|---------------------------|---|
| Coniospora leaf spot<br>(Coniospora leaf spot)<br>Powdery mildew<br>(Erysiphe polygoni) | 14                        | Begin applications preferably or on a forecast system. For powdery mildew, apply at first sign of disease. For Coniospora leaf spot, apply at first sign of disease. For powdery mildew, apply at first sign of disease. Make applications at 10-14 day intervals. Alternate applications of this product with a non-vascular fungicide from Group 3 if used in rotation for use on sugar beets for control of black rot. If disease pressure is high, use the highest rate and shortest spray interval specified on the label. |
| Rhizoctonia crown rot<br>(Rhizoctonia solani)   |                           | For Rhizoctonia crown rot, apply 14 lb oz of product to a 7-inch band over the row at the 4- to 6-leaf stage.   |

Notes:

For best results, use sufficient water volume to provide thorough and uniform coverage.

Apply to ground (pre-emergent) or foliage, at a minimum of 5 gal/A, or chemigation apply in D-1, D-25 inch of water/acre). Using excessive amounts of water for chemigation may reduce efficacy of the product.

Use the following information to determine the correct application rate:

- Do not exceed 14 lb oz of product per season.
- Do not exceed the equivalent of 0.34 lb of product per acre per season for any application containing product.
- Do not exceed the equivalent of 2.0 lb of active ingredient per acre per season for any application containing product.
- Preharvest Interval (PHI) = 21 Days

SUGARCANE

| Target Disease   | Use Rate (lb oz per acre) | Application Instructions   |
|--|---------------------------|--|
| Brown rot<br>(Fusicoccum melanosporium)<br>Orange blight<br>(Fusicoccum melanosporium) | 16-22                     | Begin applications prior to root development and continue throughout the season at 14- to 21-day intervals. Scout fields and begin applications at the earliest sign of root blight. |
| Use the following information to determine the correct application rate:               |                           | Apply by ground, air, or chemigation.  |

Notes:

- Do not exceed 22 lb oz of product per season.
- Do not exceed the equivalent of 0.34 lb of product per acre per season for any application containing product.
- Do not exceed the equivalent of 2.0 lb of active ingredient per acre per season for any application containing product.
- Preharvest Interval (PHI) = 30 Days

This page contains no comments

| TREE NUTS**   |                                  |   |
|---|----------------------------------|---|
| Almond, Brazil Nut, Cashew, Chestnut, Chinquapin, Hickory, Macadamia, Walnut  |                                  |   |
| ** See Crop Specific Use Directions for Almond, Filbert, Pecan, and Pistachio   |                                  |   |
| Target Disease  | Use Rate<br>(lb or product/acre) | Application Instructions  |
| Fruit Diseases  | 14-21                            | Begin applications at first sign of disease and repeat applications at 2- to 14-day intervals.<br>Do not make more than two (2) consecutive applications of this product before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of the product or other Group 11 fungicides per season. |
| Nutlet  |                                  | Apply by ground or air (minimum of 15 gal/A)  |
| Apply by ground for best control of tree nut diseases   |                                  |   |
| <b>Use Limitations:</b><br>• Do not exceed 1.2 lb/A of product per acre.<br>• Do not exceed 1.2 lb/A of product per acre.<br>• Do not exceed the equivalent of 1.2 lb/A of product per acre from any fungicide-containing product.<br>• Do not exceed the equivalent of 1.2 lb/A of product per acre from any fungicide-containing product.<br>• Pre-harvest interval (PHI) = 60 Days except for pecans (refer to crop specific directions for pecans).<br>• Do not graze livestock in treated areas or off treated crops for feed. |                                  |   |

This page contains no comments

RATE CONVERSION CHART

| Fluid Ounces Product/Acte | Pounds of Azoxystrobin a.i. | Pounds of Propiconazole a.i. |
|---------------------------|-----------------------------|------------------------------|
| 7                         | 0.056                       | 0.06                         |
| 10.5                      | 0.10                        | 0.08                         |
| 14.0                      | 0.13                        | 0.11                         |
| 15.75                     | 0.15                        | 0.125                        |
| 17.5                      | 0.16                        | 0.14                         |
| 21                        | 0.19                        | 0.17                         |
| 26                        | 0.24                        | 0.21                         |
| 27                        | 0.25                        | 0.22                         |
| 28                        | 0.26                        | 0.22                         |

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in original container only in a cool, dry, and well ventilated area. Keep container closed when not in use. Do not store near food or feed.

**PESTICIDE DISPOSAL:** Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If those wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

#### CONTAINER HANDLING:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **\*NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type/size.

#### [Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### [Nonrefillable containers larger than 5 gallons]

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 80 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### [Refillable containers larger than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

This page contains no comments

#### WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTE OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WARNING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

#### LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUITS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYERS OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURERS OR SELLERS TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product and return it unopened to the Seller, and the purchase price will be refunded.

(Rv072613)

All trademarks that appear on this label which are not owned by Nularm Americas Inc. or its subsidiaries are the property of their respective owners.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION  
OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION [7505P]

**DP BARCODE No.:** 416163; **FILE SYMBOL No.:** 228-TEE; **PRODUCT NAME:** NUP-12103 Fungicide;  
**DECISION No.:** 482214; **PC Code(s):** 122101, 128810; **ACTION CODE:** R300; **FOOD Use:** Yes

**DATE OUT:** November 21, 2013

**SUBJECT:** End Use Product Chemistry Review  
Product Name: NUP-12103 Fungicide

**FROM:** Shyam Mathur, Ph.D  
Product Chemistry Team Leader  
Technical Review Branch/RD (7505P)

*S. Mathur*  
*11-21-13*  
*SCR*

**TO:** Erin Malone / Shaja Joyner, RM 20  
Fungicide Branch / RD (7505P)

**Company Name:** Nufarm Americas Incorporation  
**Formulation Type:** Fungicide

**INTRODUCTION:**

The registrant has submitted an application for the registration of the new end use product "NUP-12103 Fungicide". The registrant has submitted a CSF for basic formulation (dated June 28, 2013). In support of the proposed basic CSF, the registrant has submitted 830 series group A and group B product chemistry data with MRID Nos. 491771-01 thru 491771-03. The registrant has claimed that the proposed product is substantially similar to the registered product with Reg. No. 100-1324. TRB has been asked to determine the acceptability of the proposed basic CSF, the supporting product chemistry data and also determine similarity to the cited product.

**SUMMARY OF FINDINGS:**

1. Name of Active Ingredient(s): Azoxystrobin (13.7%) and Propiconazole (12.0%)
2. Has the registrant claimed substantial similarity to a registered product?

[X] Yes; [ ] No; [ ] NA; if yes, give the registration number of the cited product.

Reg. No. 100-1324

DP BARCODE No.: 416163; FILE SYMBOL No.: 228-TEE; PRODUCT NAME: NUP-12103 Fungicide;  
DECISION No.: 482214; PC Code(s): t22101, 128810; ACTION CODE: R300; FOOD Use: Yes

3. All of the source materials of the active ingredient are derived from registered sources: ☒ Yes ☐ No

4. All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled Uses: ☒ Yes; ☐ No

5. Confidential Statement of Formula(s):

☒ Proposed Basic - Dated: 06-28-2013

☐ Proposed Alternate CSF -- Both Dated: ; Re-submitted -- Dated: NA

Alternate CSF(s) complies with 40CFR§152.43: ☐ Yes; ☐ No; ☒ NA

6. Product label

a. Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2).

☒ Yes; ☐ No; if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs other ingredient)

☒ Yes; ☐ No; if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA

Soluble arsenic: ☐ Yes ☒ NA

Isomeric ratios: ☐ Yes ☒ NA

Acid Equivalent: ☐ Yes ☒ NA

b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☒ Yes ☐ No ☐ NA

Methanol at > 4%: ☐ Yes ☐ No ☒ NA

Sodium nitrate/Sodium Nitrite ☐ Yes ☐ No ☒ NA

c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for flammability, explosive potential or electric insulator breakdown?

☐ Yes; ☒ No

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?

☐ Yes; ☐ No; ☒ NA; if not, explain below

d. Label requires an additional Storage and Disposal statement:

☐ Yes; ☒ No; if yes explain below:

DP BARCODE No.: 416163; FILE SYMBOL No.: 228-TEE; PRODUCT NAME: NUP-12103 Fungicide;  
 DECISION No.: 482214; PC Code(s): 122101, 128810; ACTION CODE: R300; FOOD Use: Yes

7. Group A: Product Chemistry data

TRB's determination of the acceptability for the proposed product is listed in the tables below.

| Guideline No. | Study Title  |                                | Data cited |    | TRB's Assessment of Data | MRID Nos. Cited              |
|---------------|--|--------------------------------|------------|----|--------------------------|------------------------------|
|               |  |                                | Yes        | No |                          |                              |
| 830.1550      | Product Identity & Composition                       |                                | X          |    | A                        | 491771-01                    |
| 830.1600      | Description of materials used to produce the product |                                | X          |    | A                        | 491771-01                    |
| 830.1650      | Description of formulation process                   |                                | X          |    | A                        | 491771-01                    |
| 830.1670      | Discussion on the formation of impurities            |                                | X          |    | A                        | 491771-01                    |
| 830.1700      | Preliminary analysis                                 |                                |            |    |                          |                              |
| 830.1750      | Certified limits (158.350)                           | Standard certified limits      | X          |    | A                        | Basic CSF (dated 06-28-2013) |
|               |  | Proposed Limits                |            |    |                          |                              |
|               |  | Justification for wider limits |            |    |                          |                              |
| 830.1800      | Enforcement analytical method                        |                                | X          |    | A                        | 491771-01<br>491771-02       |

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.



DP BARCODE No.: 416163; FILE SYMBOL No.: 228-TEE; PRODUCT NAME: NUP-12103 Fungicide;  
 DECISION No.: 482214; PC Code(s): 122101, 128810; ACTION CODE: R300; FOOD Use: Yes

8. Group B: Cited from Reg. No. 83520-24

| Guideline No. | Study Title         | Value or Qualitative Description  | TRB's Assessment of Data | MRID Nos. cited |
|---------------|---------------------|---|--------------------------|-----------------|
| 830.6302      | Physical State      | Liquid @20-25°C   | A                        | 491771-03       |
| 830.6314      | Oxidation/reduction | Compatible with water, 5% ammonium phosphate, Zn and 5% KMnO <sub>4</sub> | A                        | 491771-03       |
| 830.6315      | Flammability        | >175°F (flash point)  | A                        | 491771-03 (CSF) |
| 830.6316      | Explosibility       | Not potentially explosive   | A                        | 491771-03       |
| 830.7000      | pH                  | 6.4 @25°C   | A                        | 491771-03       |
| 830.7100      | Viscosity Range     | 20°C 250-3100 mPa.s<br>40°C 200-2400 mPa.s                                | A                        | 491771-03       |
| 830.7300      | Relative Density    | 1.04 (8.67 lbs/gal) @ 20°C  | A                        | 491771-03       |

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress; U = Upgradeable.

**830.6317 (accelerated storage stability) & 830.6320 (accelerated corrosion characteristics)**

(MRID No. 491771-04)

The test substance was stored in one litre fluorinated HPDE bottle for two weeks at 54°C. The test material was subjected to analysis for the determination of active ingredients at the starting point and the end of the test period. It was determined that the test substance was stable and did not show any signs of corrosion on the storage container.

**DP BARCODE No.:** 416163; **FILE SYMBOL No.:** 228-TEE; **PRODUCT NAME:** NUP-12103 Fungicide; **DECISION No.:** 482214; **PC Code(s):** 122101, 128810; **ACTION CODE:** R300; **FOOD Use:** Yes

## **CONCLUSIONS:**

The TRB has reviewed the product chemistry data submitted for the proposed end-use product and has concluded that:

1. The proposed basic CSF (dated 06-28-2013) is found to be acceptable.
2. The product chemistry data submitted for the guideline 830.1550 (product identity & composition), 830.1600 (description of materials used to produce product), 830.1650 (description of formulation process), 830.1670 (discussion on the formation of impurities), 830.1750 (certified limits) and 830.1800 (enforcement analytical method) are acceptable.
3. The product chemistry data submitted corresponding to guidelines 830.6302 (color), 830.6303 (physical state), 830.6304 (odor), 830.6314 (oxidation/reduction), 830.6315 (flammability), 830.6316 (explodability), 830.7000 (pH), 830.7100 (viscosity) and 830.7300 (density) are acceptable.
4. The proposed product with File Symbol No. 228-TEE was determined not to be substantially similar to the cited product with Reg. No. 100-1324 from the product chemistry point of view. The nominal concentrations of the two active ingredients in proposed product are very similar to the nominal concentrations of active ingredients in the cited product. However, the proposed product contains an aromatic solvent in significant amounts which is not present in the cited product. Consequently, the product label will not be substantially similar.
5. Since the proposed product contains the aromatic solvent in concentration of >10%, the registrant must add the following line just below the Ingredient statement on the proposed product's label:  
  
"Contains petroleum distillate"
6. The test substance was found to be chemically and physically stable over two week storage period and was not corrosive towards the packaging employed. Based on the results submitted the data submitted for the guidelines 830.6317 & 830.6320 (accelerated studies) are acceptable.

# DATA PACKAGE BEAN SHEET

Date: 18-Nov-2013

Page 1 of 2

Decision #: 482214

DP #: (416163)

PRIA

Parent DP #:

Submission #: 939963

E-Sub #: 4641

## \*\*\* Registration Information \*\*\*

Registration: 228-TEE - NUP-12103 Fungicide

Company: 228 - NUFARM AMERICAS, INC.

Risk Manager: RM 20 - Shaja Joyner - (703) 308-3194 Room# PY1 S-7327

Risk Manager Reviewer: Erin Malone EMALONE

Sent Date: \_\_\_\_\_

PRIA Due Date: 10-Jan-2014

Edited Due Date: \_\_\_\_\_

Type of Registration: Product Registration - Section 3

Action Desc: (R300) NEW PRODUCT; OR SIMILAR COMBINATION PRODUCT (ALREADY REGISTERED)

Ingredients: t22 t01, Propiconazole (12%)

t288 t0, Azoxystrobin (13.7%)

## \*\*\* Data Package Information \*\*\*

Expedite: ☐ Yes ☒ No

Date Sent: 18-Nov-2013

Due Back: \_\_\_\_\_

DP Ingredient: t22 t01, Propiconazole

t288 t0, Azoxystrobin

DP Title: R300 Subs similar azoxy/prop EP

CSF Included: ☒ Yes ☐ No

Label Included: ☒ Yes ☐ No

Parent DP #: \_\_\_\_\_

Assigned To

Date In

Date Out

Organization: RD / TRB

Last Possible Science Due Date: 26-Nov-2013

Team Name: CHEM

Science Due Date: \_\_\_\_\_

Reviewer Name: Shyam Natesh

11-20-13

11-21-13

Sub Data Package Due Date: \_\_\_\_\_

Contractor Name: \_\_\_\_\_

## \*\*\* Studies Sent for Review \*\*\*

Printed on Page 2

## \*\*\* Additional Data Package for this Decision \*\*\*

Can be printed on its own page

## \*\*\* Data Package Instructions \*\*\*

Chem team:

I have for your review an azoxystrobin/propiconazole EP that is claiming to be substantially similar in composition to 100-1324. The registrant has submitted product chemistry studies to fulfill the requirements for registration. Do the submitted MRIDs fulfill the requirements? Are there any deficiencies? Is the proposed basic CSF dated 6/28/13 acceptable? Are the requirements for product chem fulfilled?

For your review I have included the cover letter, transmittal, data matrix, proposed label, and proposed basic CSF.

Thanks,  
Erin

\*\*A 45 day technical screen is due ASAP because the original screen was due 10/25 but this application did not reach the review team until 11/13. If you find any deficiencies, please draft a memo.\*\*

| MRID     | MRID Status | Chabon Reference   | Guideline   | 86's Status        |
|----------|-------------|--|---|--------------------|
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1550/Product Identity and composition                     | Pass (21-Aug-2013) |
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1600/Description of materials used to produce the product | Pass (21-Aug-2013) |
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1650/Description of formulation process                   | Pass (21-Aug-2013) |
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1670/Discussion of formation of impurities                | Pass (21-Aug-2013) |
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1750/Certified limits                                     | Pass (21-Aug-2013) |
| 49177101 |             | Hitchcock, C. (2013) NUP-12103: Product Chemistry (Group A). Project Number: RTP/13/047/REG/OCR. Unpublished study prepared by Nufarm Americas, Inc. 120p.   | 830.1800/Enforcement analytical method                        | Pass (21-Aug-2013) |
| 49177102 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Method Validation. Project Number: KPN0287/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 57p.           | 830.1800/Enforcement analytical method                        | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.6302/Color  | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.6303/Physical state                                       | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.6314/Oxidizing or reducing action                         | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.6315/Flammability   | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.6316/Explosibility  | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.7000/pH   | Pass (21-Aug-2013) |
| 49177103 |             | Dunning, J. (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907: Physico-Chemical Properties. Project Number: KPN0283/OCR. Unpublished study prepared by Huntingdon Life Sciences, Ltd. 47p. | 830.7300/Density/relative density                             | Pass (21-Aug-2013) |

## Similarity Clinic Screen Completed

Date: 9/30/13

Jacket #: 228-TEE

### Actions Done:

Acute Toxicity Review: COMPLETED - IN JACKET  
Acute Toxicity Language for Label: IN THE REVIEW

Product Chemistry Review: SUBMITTED NEW STUDIE  
SEND TO TRB

**Transfer This Jacket To:** FOR FULL  
REVIEW  
PM 20, SHAJA JOYNER

228-TEF

Inject 8/23

## Memorandum

E-SUBMISSION

(2300 - sum clin?)

Date: 08/22/13

To: PM 20, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

**We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.**

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission  
☐ partially accepted submission  
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

August 21, 2013

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

NUFARM AMERICAS, INC.  
NUFARM AMERICAS, INC.  
4020 AERIAL CENTER PKWY., STE. 101  
MORRISVILLE, NC 27560

Report of Analysis for Compliance with PR Notice 11-03

Thank you for your submittal of 20-AUG-13. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 11-03. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND  
POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

~~CONTAINS CBI~~ ~~DO NOT RELEASE TO~~  
27/SEP/2013 ~~REGISTRANT~~

SIMILARITY CLINIC MEMORANDUM

MEMORANDUM

Subject: Name of Pesticide Product: NUP-12103 Fungicide  
EPA Reg. No. /File Symbol: 228-TEE  
DP Barcode: D415127  
Decision No: 482214  
Action Code: R300  
PC Codes: 128810 (azoxystrobin)  
122101 (propiconazole)

From: Roger Chesser, Biologist  
Inert Ingredient Assessment Branch (IIRB)  
Registration Division (RD; 7505P)

*for Chesser* 9-30-2013  
*sc R*

Through: Technical Review Branch (TRB)  
Registration Division (RD; 7505P)

To: RM Team 20  
Fungicide Branch (FB)  
Registration Division (RD; 7505P)

Applicant: Nufarm Americas, Inc.  
11901 S. Austin Avenue  
Alsip, IL 60803

FORMULATION FROM LABEL:

|                              |                 |
|------------------------------|-----------------|
| <u>Active Ingredient(s):</u> | <u>% by wt.</u> |
| Azoxystrobin                 | 13.7            |
| Propiconazole                | 12.0            |
| <u>Other Ingredients:</u>    | <u>74.3</u>     |
| Total:                       | 100.0%          |



**ACTION REQUESTED:** Similarity determination for 228-TEE and 100-1324.

**BACKGROUND:** Nufarm Americas, Inc. has applied for registration of NUP-12103 Fungicide, EPA File Symbol 228-TEE, claiming to be substantially similar to EPA Reg. No. 100-1324. The products contain, respectively, 13.7% azoxystrobin, 12.0% propiconazole, and 13.5% azoxystrobin, 12.3% propiconazole. The submission includes a basic CSF dated June 28, 2013, a label, data matrix and company letter.

The registrant is using the cite all method of data support to satisfy the acute toxicity data requirements. A search of the OPP electronic databases shows that acute toxicity studies were submitted to support the registration of the cited product, 100-1324. Summaries of these studies can be found in a 2009 Toxicology Review Branch memo (Hanson; D357927; EPA File Symbol 100-RGEU; 5/FEB/2009).

**RECOMMENDATIONS:**

1. TRB compared the basic CSFs of the proposed product, 228-TEE, and the cited product, 100-1324, and determined that the formulations are substantially similar.

2. The acute toxicity profile for the proposed product, NUP-12103 Fungicide, EPA File Symbol 228-TEE, is as follows:

|                           |                                 |     |       |                       |
|---------------------------|---------------------------------|-----|-------|-----------------------|
| acute oral toxicity       | (LD <sub>50</sub> > 1030 mg/kg) | III | cited | EPA Reg. No. 100-1324 |
| acute dermal toxicity     | (LD <sub>50</sub> > 5000 mg/kg) | IV  | cited | EPA Reg. No. 100-1324 |
| acute inhalation toxicity | (LC <sub>50</sub> > 2.56 mg/L)  | IV  | cited | EPA Reg. No. 100-1324 |
| primary eye irritation    |                                 | II  | cited | EPA Reg. No. 100-1324 |
| primary skin irritation   |                                 | III | cited | EPA Reg. No. 100-1324 |
| dermal sensitization      | negative                        |     | cited | EPA Reg. No. 100-1324 |

3. The registrant has submitted product chemistry data and a basic CSF which will be reviewed by the TRB Product Chemistry Team.

**LABELING:** Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

**PRODUCT ID #:** 000228-00722

**PRODUCT NAME:** NUP-12103 Fungicide

**PRECAUTIONARY STATEMENTS**

**SIGNAL WORD:** WARNING

**SPANISH SIGNAL WORD:** AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

### **Hazards to Humans and Domestic Animals:**

Contains Petroleum Distillate.


Causes substantial but temporary eye injury. Harmful if swallowed. Avoid contact with skin or clothing. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A).

### **First Aid:**

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If swallowed:

- 
- Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to by a poison control center or doctor.
  - Do not give anything to an unconscious person.

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

21-Day Screen Completed by  
Contractor

21-Day Expires on 9-10-13

Jacket # 228-TEE

MRID# 491771

Content Screen: Recommend to Pass/Fail

11-3 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

STEPHEN SCHAIKLE

# PRIA 3 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

September 2012

21 Day Screen Start Date: 8-20-13

Experts In-Processing Signature: P.B. Date 8-22-13 Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date

| EPA Reg. Number: <u>228 - TEE</u> |  | EPA Receipt Date: <u>8-20-13</u> |    |     |    |      |
|-----------------------------------|--|----------------------------------|----|-----|----|------|
| Items for Review                  |  |                                  |    | Yes | No | N/A* |
| 1                                 | Application Form (EPA Form 8570-1) signed & complete including package type  |                                  |    | X   |    |      |
| 2                                 | Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)  |                                  |    | X   |    |      |
|                                   | a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)   | yes                              | no |     |    |      |
|                                   |  | X                                |    |     |    |      |
| 3                                 | Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)                              |                                  |    | X   |    |      |
|                                   | Certificate and data matrix consistent   |                                  |    | X   |    |      |
|                                   | If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)                           | yes                              | no |     |    |      |
|                                   |  |                                  |    |     |    |      |
|                                   | If applicable, is there a letter of Authorization for exclusive use only.  |                                  |    |     |    |      |
| 4                                 | Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical) |                                  |    | X   |    |      |
|                                   | Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)                     |                                  |    | X   |    |      |
| 5                                 | a) Selective Method (Fee category experts use)   | yes                              | no |     |    |      |
|                                   | b) Cite-All (Fee category experts use)   |                                  |    |     |    |      |
|                                   | c) Applicant owns all data (Fee category experts use)  |                                  |    |     |    |      |
| 6                                 | 5 Copies of Label (Electronic labels on CD are encouraged and guidance is available)   |                                  |    | X   |    |      |
| 7                                 | Is the data package consistent with PR Notice 86-5   |                                  |    | X   |    |      |
| 8                                 | Notice of Filing included with petitions   |                                  |    |     |    | X    |

|    |  |  |  |   |
|----|--|--|--|---|
| 9  | If applicable for conventional applications, <u>reduced risk rationale</u> |  |  | X |
|    | <u>Required Data</u> and/or data waivers. See Footnote C.                  |  |  |   |
| 10 | a) List study (or studies) not included with application                   |  |  |   |

**Comments:**

\* Data Package approved.

\* A.I. - 9 comp + Category added.

\* CSF Issue: An insect mixture is not in the agency database. Registrant was contacted on 08/29/2013. Issue resolved.

\* Label approved.

NRID 49771

IK 703-347-8518

\* N/A – Not Applicable

#### Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency even if a product is **currently registered** by consulting the [inert Web site](#) and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at [inertsbranch@epa.gov](mailto:inertsbranch@epa.gov) and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the [Chief of Microbial Pesticides Branch](#).

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

### **Unapproved Inerts Identified on CSFs**

#### **All applications except conventional new products and PIPs**

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

#### **Conventional New Product Applications**

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

#### PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.





**Unugboji, Wilkinson**

---

**From:** danielle.larochelle@us.nufarm.com  
**Sent:** Tuesday, September 03, 2013 1:51 PM  
**To:** Unugboji, Wilkinson  
**Subject:** RE: EPA Product Update for 228-TEE  
**Attachments:** ATT00001.gif

Hi Wilkinson,

Thank you for the extension.

I gave your contact information to the supplier representative [REDACTED] for [REDACTED] and he just sent you some information. Hopefully, this provides the information you need.

Let me know if you need anything else.

Best regards,

Danielle

---

**Danielle A. Larochelle - Nufarm Americas Inc.**  
**Regulatory Affairs Manager**  
4020 Aerial Center Parkway, Suite 101; Morrisville, NC 27560  
☎: (919) 379-2530; Cell: (919) 500-0925  
✉: danielle.larochelle@us.nufarm.com

---

**From:** "Unugboji, Wilkinson" <Unugboji.Wilkinson@epa.gov>  
**To:** "danielle.larochelle@us.nufarm.com" <danielle.larochelle@us.nufarm.com>,  
**Date:** 09/03/2013 12:56 PM  
**Subject:** RE: EPA Product Update for 228-TEE

---

Hi Danielle,

I wish to inquire about your status in providing the inert information requested. Please know that the deadline at my end has been extended to 09/04.

Regards,

Wilkinson Unugboji  
Senior Data Analyst - Indus/EPA Contractor  
One Potomac Yard  
2777 S. Crystal Drive, S-4813  
Arlington, VA 22202  
Tel: (703).347.8518  
Fax: (703).305.5060  
EPA Mail: unugboji.wilkinson@epa.gov

don't hesitate to contact me.

Regards,

Wilkinson Unugboji  
Senior Data Analyst - Indus/EPA Contractor  
One Potomac Yard  
2777 S.Crystal Drive, S-4813  
Arlington, VA 22202  
Tel: (703).347.8518  
Fax: (703).305.5060  
EPA Mail: unugboji.wilkinson@epa.gov  
[attachment "Inert Clearance for 228-Tee.doc" deleted by Danielle Larochelle/US/Nufarm]

\*\*\*\*\*

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 708 377 1333.

\*\*\*\*\*

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 708 377 1333.

## R 300 and 301

100% identical (repack): YES or (NO) (circle one)

{If **yes**, it's a 100% repack - then product chemistry, acute toxicity and efficacy data are not required}

Data on Group A and B must be submitted - Group A and B can not be cited.

| Guideline No. | Group A: Product Chemistry Data Study Title          | Data submitted |    |
|---------------|--|----------------|----|
|               |  | Yes            | No |
| 830.1550      | Product Identity & Composition                       | ✓              |    |
| 830.1600      | Description of materials used to produce the product | ✓              |    |
| 830.1650      | Description of formulation process                   | ✓              |    |
| 830.1670      | Discussion on the formation of impurities            | ✓              |    |
| 830.1700      | Preliminary analysis                                 |                | X  |
| 830.1750      | Certified limits (158.345)                           | ✓              |    |
| 830.1800      | Enforcement analytical method                        | ✓              |    |

| Guideline No. | Group B: Product Chemistry Data Study Title    | Data submitted |    |
|---------------|--|----------------|----|
|               |  | Yes            | No |
| 830.6302      | Color  | ✓              |    |
| 830.6303      | Physical State                                 | ✓              |    |
| 830.6304      | Odor   |                | X  |
| 830.6314      | Oxidation/Reduction (Chemical Incompatibility) | ✓              |    |
| 830.6315      | Flammability                                   | ✓              |    |
| 830.6316      | Explosibility                                  | ✓              |    |
| 830.6317      | Storage stability                              | ✓              |    |
| 830.6319      | Miscibility                                    |                | X  |
| 830.6320      | Corrosion Characteristics                      | ✓              |    |
| 830.6321      | Dielectric Breakdown voltage                   |                | X  |
| 830.7000      | pH   | ✓              |    |
| 830.7100      | Viscosity                                      | ✓              |    |
| 830.7300      | Density  | ✓              |    |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

August 22, 2013

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OPP Decision Number: D-482214  
EPA File Symbol or Registration Number: 228-TEE  
Product Name: NUP-I2103 Fungicide  
EPA Receipt Date: 20-Aug-2013  
EPA Company Number: 228  
Company Name: NUFARM AMERICAS, INC.

DANIELLE LAROCHELLE  
NUFARM AMERICAS, INC.  
4020 AERIAL CENTER PKWY., STE. 101  
MORRISVILLE, NC 27560-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300

NEW PRODUCT;OR SIMILAR COMBINATION PRODUCT (ALREADY REGISTERED) TO AN IDENTICAL OR SUBSTANTIALLY SIMILAR IN COMPOSITION AND USE TO A REGISTERED PRODUCT;REGISTERED SOURCE OF ACTIVE INGREDIENT;NO DATA REVIEW ON ACUTE TOXICITY, EFFICACY OR CRP - ONLY PRODUCT CHEMISTRY DATA;CITE-ALL DATA CITATION, OR SELECTIVE DATA CITATION WHERE APPLICANT OWNS ALL REQUIRED DATA, OR APPLICANT SUBMITS SPECIFIC AUTHORIZATION LETTER FROM DATA OWNER;CATEGORY ALSO INCLUDES 100% RE-PACKAGE OF REGISTERED END-USE OR MANUFACTURING-USE PRODUCT THAT REQUIRES NO DATA SUBMISSION NOR DATA MATRIX;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely,

*Peresa Sousa*  
Front End Processing Staff

Information Technology & Resources Management Division

# Fee for Service

{939963R~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☐ Fee Waiver?  
☐ volpay % Reduction: \_\_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 20

Receipt No.

S-

939963

EPA File Symbol/Reg. No.

228-TEE

Pin-Punch Date:

8/20/2013

☐ This item is NOT subject to FFS action.

## Action Code:

Requested: R300

Granted: R300

Amount Due: \$ 1434

## Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: *[Signature]*

Date: 8/22/13

Remarks: sim clin

# E-SUBMISSION

# Receipt for Section 3

S: 939963

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☒ Yes ☐ No

Application Type: New Registration

Billable: ☒ Yes ☐ No

Company: 228 NUFARM AMERICAS, INC.

V

Risk Manager: Registration Division, Risk Management Team 20

Product #: 228-TEE

Product Name: NUP-12103 Fungicide

Override:

Me Too  
Section3: 100-1324

Me Too  
Product Name: QUILT XCEL

Application Date: 26-Jul-2013

ip

OPP Rec'd Date: 20-Aug-2013

ip

Front End Date: 21-Aug-2013

ip

Risk Manager Send Date:

ip

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

| Receipt Content |   |
|-----------------|---|
| Study           |   |
| CSF             |   |
| <               | > |

View/Edit

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

E-submission # 4641. New registration.

New Ingredient

Request Date:

New Ingredient

Received Date:

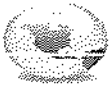
Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

E-SUBMISSION



**Pay.gov Payment Confirmation: PRIA Service Fees**

paygovadmin to: danielle.larochelle@us.nufarm.com

07/26/2013 07:36 PM

Your payment has been submitted to Pay.gov and the details are below. If you have any questions or you wish to cancel this payment, please contact Pay.gov Customer Service by phone at (800) 624-1373 or by email at pay.gov.clev@clev.frb.org.

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 25B01IQR  
Agency Tracking ID: 74482502492  
Transaction Type: Sale  
Transaction Date: Jul 26, 2013 7:36:10 PM


Account Holder Name: DANIELLE LAROCHELLE  
Transaction Amount: \$1,434.00  
Billing Address: 4020 AERIAL CENTER PARKWAY  
Billing Address 2: SUITE 101  
City: MORRISVILLE  
State/Province: NC  
Zip/Postal Code: 27560  
Country: USA  
Card Type: AmericanExpress  
Card Number: \*\*\*\*\*1002

Decision Number:  
Registration Number:  
Company Name: NUFARM AMERICAS INC.  
Company Number: 228  
Action Code: R300

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

E-SUBMISSION



|   |                                 |   |                       |
|---|---------------------------------|---|-----------------------|
|  | United States                   | <input checked="" type="checkbox"/> <b>Registration</b> | OPP Identifier Number |
|   | Environmental Protection Agency | <input type="checkbox"/> <b>Amendment</b>               |                       |
|   | Washington, DC 20460            | <input type="checkbox"/> <b>Other:</b>                  |                       |

**Application for Pesticide - Section I**

|   |   |  |
|---|---|--|
| 1. Company/Product Number<br><b>228-XXX</b>   | 2. EPA Product Manager<br><b>Driss Benmhend</b> | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted   |
| 4. Company/Product (Name)<br><b>NUP-12103 Fungicide</b>   | PM#<br><b>20</b>                                |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>NUFARM AMERICAS INC.<br/>4020 Aerial Center Parkway, Suite 101<br/>Morrisville, NC 27560</b><br><input type="checkbox"/> Check if this is a new address |   | 6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:<br>EPA Reg. No.: <u>100-1324</u><br>Product Name: <u>Quilt Xcel® Fungicide</u> |

**Section - II**

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input checked="" type="checkbox"/> "Me Too" Application                               |
| <input type="checkbox"/> Notification - Explain below.                         | <input type="checkbox"/> Other - Explain below   |

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)**REGFEE = R300; Cost \$1,434; 4 month review - ELECTRONIC-SUBMISSION**

Application for the registration of a new end-use product substantially similar in composition and use to a registered product; registered source of active ingredient;

**CONTACT:** Danielle Larochelle, Nufarm Americas Inc, 4020 Aerial Center Parkway, Suite 101, Morrisville, NC 27560.  
Tel: 919-379-2530. Email: danielle.larochelle@us.nufarm.com**Section - III**

|  |  |   |   |   |   |
|--|--|---|---|---|---|
| 1. Material This Product Will Be Packaged In:  |  |   |   | 2. Type of Container  |   |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No   | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |   | <input type="checkbox"/> Metal  | <input checked="" type="checkbox"/> Plastic |
| *Certification must be submitted   |  | If "Yes" Unit Packaging wgt. No. per container  | If "Yes" Package wgt. No. per container | <input type="checkbox"/> Glass  | <input type="checkbox"/> Paper              |
|  |  |   |   | <input type="checkbox"/> Other (Specify) _____  |   |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container  |  | 4. Size(s) Retail Container<br><b>1 Gallon; 2,5 Gallons; 30 Gallons</b>                           |   | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product |   |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><input type="checkbox"/> Stenciled<br><input checked="" type="checkbox"/> Other <u>Crack and peel</u> |  |   |   |   |   |

**Section - IV**

|  |   |  |
|--|---|--|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)   |   |  |
| Name<br><b>Danielle A. Larochelle</b>  | Title<br><b>Registration Manager</b>    | Telephone No. (Include Area Code)<br><b>919-379-2530</b>                             |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |   | 6. Date Application Received (Stamped)   |
| 2. Signature<br>  | 3. Title<br><b>Registration Manager</b> |  |
| 4. Typed Name<br><b>Danielle A. Larochelle</b>   | 4. Date<br><b>July 26, 2013</b>         |  |



**NUFARM AMERICAS INC.**  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: (919) 379-2510 ■ Fax: (919) 467-5923

July 26, 2013

Document Processing Desk (REGFEE)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Attention: Mr. Driss Benmhend, Acting PM (20)

Dear Mr. Benmhend:

**Subject: NUP-12103 Fungicide – EPA Reg. No. 228-XXX**  
**Application for the Registration of a New End-Use Product**  
**Action Code R300; PRIA Service Fee: \$1,434 (4 Month Review)**  
**Pay.gov Tracking ID: 25B01IQR; Agency Tracking ID: 74482502492**  
**ELECTRONIC SUBMISSION**

Please find enclosed an application for the registration of NUP-12103 Fungicide, a new end-use product containing the active ingredients azoxystrobin and propiconazole. NUP-12103 is substantially similar in composition and use to a registered product, EPA Reg. No. 100-1324 (Quilt Xcel). The proposed labeling for NUP-12103 Fungicide is essentially identical to that for Reg. No. 100-1324.

A transmittal document is attached which lists all administrative documents and other information submitted in support of this action.

If you have any questions regarding this submission or if you need additional information, please contact me by phone at (919) 379-2530 or by email at [danielle.larochelle@us.nufarm.com](mailto:danielle.larochelle@us.nufarm.com).

Sincerely,

Danielle A. Larochelle  
Registration Manager

E-SUBMISSION



**NUFARM AMERICAS INC.**  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: (919) 379-2510 ■ Fax: (919) 467-5923

## TRANSMITTAL DOCUMENT

**NUP-12103 Fungicide; EPA Reg. No. 228-XXX**

### Name and Address of Submitter

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

### Company Contact:

Danielle A. Larochelle  
Registration Manager

Phone: 919-379-2530

Email: danielle.larochelle@us.nufarm.com

### Regulatory action in support of which this package is submitted

NUP-12103 Fungicide; EPA Reg. No. 228-XXX

Application for the registration of a new end-use product substantially similar in composition and use to a registered product (registered source of active ingredient)

PRIA Action Category: R300; Cost: \$1,434; 4 Month Review

### Submission Date

July 26, 2013

### List of Submitted Documents

| Volume #  | Citation   | MRID #   |
|---|--|----------|
| 1 of 5  | Administrative Materials:<br>1. Cover Letter<br>2. PRIA Fee Online Payment Confirmation<br>3. Transmittal Document<br>4. Application for Pesticide Amendment - Form 8570-1<br>5. Certification with Respect to Label Integrity<br>6. Formulator's Exemption Statement - Form 8570-27<br>7. Data Matrix - Form 8570-35 (EPA Int. copy)<br>8. Data Matrix - Form 8570-35 (Public version)<br>9. Certification with Respect to Citation of Data - Form 8570-34<br>10. Proposed Label<br>11. Proposed Alternate CSF dated 06-28-2013 | N/A      |
| GLN Nos. 830.1550, 830.1600, 830.1650, 830.1670, 830.1700, 830.1750, 830.1800 |  |          |
| 2 of 5  | Hitchcock, C., (2013) NUP-12103 Product Chemistry - OPPTS 830.1550-830.1800; June 28, 2013; Study No. RTP-13-047-REG, 26 pages.  | 49177101 |
| GLN Nos. 830.1800   |  |          |
| 3 of 8  | Dunning, J., (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907, Method Validation, June 14, 2013; Study No. KPN0287, 57 pages.   | 49177102 |

**List of Submitted Documents (continued)**

| <b>Volume #</b>  | <b>Citation</b>  | <b>MRID #</b> |
|--|--|---------------|
| <b>GLN Nos. 830.6302, 830.6303, 830.6314, 830.6315, 830.6316, 830.7000, 830.7300</b> |  |               |
| 4 of 5   | Dunning, J., (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907, Physico-Chemical Properties, June 14, 2013; Study No. KPN0283, 47 pages.   | 49177103      |
| <b>GLN Nos. 830.6313</b>   |  |               |
| 5 of 5   | Dunning, J., (2013) Azoxystrobin 142 g/L + Propiconazole 125 g/L SE, NZ89907, Accelerated Storage Stability, June 14, 2013; Study No. KPN0286, 39 pages. | 49177104      |

Form approved. OMB NO. 2070-0060. Approval Expires 1-30-93



United States Environmental Protection Agency  
Washington, D.C. 20460

**Formulator's Exemption Statement**  
(40 CFR 152.85)

|  |   |
|--|---|
| Applicant's Name and Address<br><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 | EPA File Symbol/Registration Number<br>228-XXX TEE  |
|  | Product Name<br>NUP-12103 Fungicide   |
|  | Date of Confidential Statement of Formula (EPA Form 8570-4)<br>Basic CSF Dated 06-28-2013 |
|  |   |

As an authorized representative of the applicant for registration of the product identified above, I here certify that:

(1) This product contains the following active ingredient(s):

**AZOXYSTROBIN  
PROPICONAZOLE**

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging of another product which contains that active ingredient, which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.

(3) Indicate by checking (A) or (B) below which paragraph applies:



(A) An accurate Confidential Statement of Formula (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR



(B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

| Source            |  |                       |
|-------------------|--|-----------------------|
| Active Ingredient | Product Name   | Registration Number   |
| Azoxystrobin      | [REDACTED]   | [REDACTED]            |
| Propiconazole     | [REDACTED]   | [REDACTED]            |
| E-SUBMISSION      |  |                       |
|                   |  |                       |
| Signature<br>     | Name and Title<br>Danielle A. Larochelle<br>Registration Manager | Date<br>July 26, 2013 |

EPA Form 8570-27 (Rev. 7-91)

White - EPA copy

Yellow - Applicant copy



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**Certification with Respect to Citation of Data**

|  |   |
|--|---|
| Applicant's/Registrant's Name, Address and Telephone Number<br><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560      | EPA Registration Number/ File Symbol<br><br>228-XXX |
| Active Ingredient(s) and/or representative test compound(s):<br><br>Azoxystrobin; Propiconazole  | Date<br><br>July 26, 2013                           |
| General use pattern(s) (list all those claimed for this product using 40 CFR Part 158)<br><br>Terrestrial Food Crop; Terrestrial Feed Crops; Aquatic Food Crop | Product Name<br><br>NUP-12103                       |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

|  |   |
|--|---|
| <input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). | <input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). |
|--|---|

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data Call-In Notice is supported by all data submitted or cited in the application for registration, the form for reregistration, or this Data Call-In response. In addition, if cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original submitter or that I have obtained the written permission of the original submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Signature

*Danielle A. Larochelle*

Date

July 26, 2013

Typed or Printed Name and Title

Danielle A. Larochelle  
Registration Manager



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

|  |  |             |
|--|--|-------------|
| Date July 26, 2013   | EPA Reg. No./File Symbol: 228-XXX        | Page 1 of 7 |
| Applicant's/Registrant's Name & Address:<br><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 | Product Name:<br><br>NUP-12103 Fungicide |             |
| Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)  |  |             |

| Guideline Reference Number | Guideline Study Name   | MRID Number          | Submitter (Company No.) | Status | Note |
|----------------------------|--|----------------------|-------------------------|--------|------|
|                            | PRODUCT CHEMISTRY DATA REQUIREMENTS                                |                      |                         |        |      |
| 830.1550                   | Product Identity and Composition                                   | 49177101             | 228                     | OWN    |      |
| 830.1600                   | Description of the Materials Used to Produce the Product           | 49177101             | 228                     | OWN    |      |
| 830.1620                   | Description of the Production Process                              | N/A                  |                         |        | 1    |
| 830.1650                   | Description of the Formulation Process                             | 49177101             | 228                     | OWN    |      |
| 830.1670                   | Discussion of the Formation of Impurities                          | 49177101             | 228                     | OWN    |      |
| 830.1700                   | Preliminary Analysis   | NA                   |                         |        | 2    |
| 830.1750                   | Certified Limits   | 49177101             | 228                     | OWN    |      |
| 830.1800                   | Enforcement Analytical Method                                      | 49177101<br>49177102 | 228                     | OWN    |      |
| 830.6302                   | Color  | 49177103             | 228                     | OWN    |      |
| 830.6303                   | Physical State   | 49177103             | 228                     | OWN    |      |
| 830.6304                   | Odor   | 49177104             | 228                     | OWN    |      |
| 830.6313                   | Stability to normal / elevated temperatures, metals and metal ions | N/A                  |                         |        | 3    |
| 830.6314                   | Oxidizing/Reducing Reaction  | 49177103             | 228                     | OWN    |      |
| 830.6315                   | Flammability   | 49177103             | 228                     | OWN    |      |

|               |   |                       |
|---------------|---|-----------------------|
| Signature<br> | Name and Title:<br>Danielle A. Larochelle<br>Registration Manager | Date<br>July 26, 2013 |
|---------------|---|-----------------------|



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 2 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number       | Guideline Study Name                    | MRID Number | Submitter (Company No.) | Status | Note |
|----------------------------------|---|-------------|-------------------------|--------|------|
| 830.6316                         | Explosibility                           | 49177103    | 228                     | OWN    |      |
| 830.6317                         | Storage Stability                       | 49177104    | 228                     | OWN    | 4    |
| 830.6319                         | Miscibility                             | N/A         |                         |        | 5    |
| 830.6320                         | Corrosion Characteristics               | 49177104    | 228                     | OWN    | 4    |
| 830.6321                         | Dielectric Breakdown Voltage            | N/A         |                         |        | 6    |
| 830.7000                         | pH                                      | 49177103    | 228                     | OWN    |      |
| 830.7050                         | UV/Visible Absorption                   | N/A         |                         |        | 3    |
| 830.7100                         | Viscosity                               | 49177103    | 228                     | OWN    |      |
| 830.7200                         | Melting Point                           | N/A         |                         |        | 3    |
| 830.7220                         | Boiling Point                           | N/A         |                         |        | 3    |
| 830.7300                         | Density, Bulk Density, Specific Gravity | 49177103    | 228                     | OWN    |      |
| 830.7370                         | Dissociation Constant                   | N/A         |                         |        | 3    |
| 830.7520                         | Particle Size                           | N/A         |                         |        | 7    |
| 830.7550<br>830.7560<br>830.7570 | Partition Coefficient (n-octanol/water) | N/A         |                         |        | 3    |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

|   |   |             |
|---|---|-------------|
| <b>Date</b> July 26, 2013   | <b>EPA Reg. No./File Symbol:</b> 228-XXX        | Page 3 of 7 |
| <b>Applicant's/Registrant's Name &amp; Address:</b><br><br>Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 | <b>Product Name:</b><br><br>NUP-12103 Fungicide |             |
| <b>Ingredient(s):</b> Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)  |   |             |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.) | Status | Note |
|----------------------------|----------------------|-------------|-------------------------|--------|------|
| 830.7840<br>830.7860       | Water Solubility     | N/A         |                         |        | 3    |
| 830.7950                   | Vapor Pressure       | N/A         |                         |        | 3    |

**FOOTNOTES**

1. The Description of the Production Process (830.1620) is not applicable to an end-use product [40 CFR §158.310(f)(3)]. See 830.1650 for formulation process information.
2. Preliminary Analysis (830.1670) data are not required since this product does not consist solely of the technical grade active ingredient (TGAI) and is not produced by an integrated manufacturing process [40 CFR §158.310(f)(10)].
3. Guidelines 830.6302, 830.6304, 830.6313, 830.7050, 830.7200, 830.7220, 830.7370, 830.7550, 830.7560, 830.7570, 7840, 830.7860, and 830.7950 – These data are not required since the product is an end use product [40 CFR §158.310 (e)].
4. Storage Stability (830.6317) & Corrosion Characteristics (830.6320) - MRID 49177104 was conducted with product in normal commercial packaging and fulfills the guideline requirements.
5. Miscibility (830.6319): Data not required since the product is not intended to be diluted with petroleum solvents [40 CFR §158.310(f)(16)].
6. Dielectric Breakdown Voltage (830.6321): Data not required since the product is not for use around electrical equipment [40 CFR §158.310(f)(17)].
7. Particle size, fiber length, and diameter distribution (830.7520): Data requirement not applicable - the product is a liquid and not a fibrous substance [40 CFR §158.310(f)(23)].

|                      |  |                              |
|----------------------|--|------------------------------|
| <b>Signature</b><br> | <b>Name and Title:</b><br>Danielle A. Larochelle<br>Registration Manager | <b>Date</b><br>July 26, 2013 |
|----------------------|--|------------------------------|



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 4 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

**NUP-12103 Fungicide**

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-t)

| Guideline Reference Number   | Guideline Study Name                    | MRID Number                                     | Submitter (Company No.) | Status | Note |
|--|---|---|-------------------------|--------|------|
|  | <b>ACUTE TOXICITY DATA REQUIREMENTS</b> |   |                         |        |      |
| 870.1100 / 81-1  | Acute Oral Toxicity (RAT)               | Cite-All  |                         | PAY    | †    |
| 870.1200 / 81-2  | Acute Dermal Toxicity                   | Cite-All  |                         | PAY    | †    |
| 870.1300 / 81-3  | Acute Inhalation Toxicity               | Cite-All  |                         | PAY    | †    |
| 870.2400 / 81-4  | Primary Eye Irritation                  | Cite-All  |                         | PAY    | †    |
| 870.2500 / 81-5  | Primary Skin Irritation                 | Cite-All  |                         | PAY    | †    |
| 870.2600 / 81-6  | Skin Sensitization                      | Cite-All  |                         | PAY    | †    |
| <b>GENERIC DATA REQUIREMENTS – Azoxystrobin and Propiconazole</b>  |   |   |                         | FOR    |      |
| † Offer-to-Pay letters are sent to the following registrants listed on EPA's April 8, 2013, Data Submitters List for Azoxystrobin and Propiconazole: |   | (100) SYNGENTA CROP PROTECTION, LLC             |                         | PAY    |      |
|  |   | (7501) GUSTAFSON LLC                            |                         | PAY    |      |
|  |   | (34704) LOVELAND PRODUCTS, INC                  |                         | PAY    |      |
| †† Nufarm Americas Inc. is a member of this Task Force.  |   | (61842) TESSENDERLO KERLEY, INC                 |                         | PAY    |      |
| A1: Nufarm Americas Inc. is a subsidiary of Nufarm Limited   |   | (66222) MAKHTESHIM AGAN OF NORTH AMERICA, INC   |                         | PAY    |      |
| A2: Nufarm acquired this company   |   | (66607) SPRAY DRIFT TASK FORCE                  |                         | PER    | ††   |
|  |   | (71754) OUTDOOR RESIDENTIAL EXPOSURE TASK FORCE |                         | PER    | ††   |
|  |   | (71755) AGRICULTURAL REENTRY TASK FORCE         |                         | PER    | ††   |
|  |   | (73989) FIFRA ENDANGERED SPECIES TASK FORCE     |                         | PER    | ††   |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 5 of 7

Applicant's/Registrant's Name &amp; Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)                   | Status | Note |
|----------------------------|----------------------|-------------|---|--------|------|
|                            |                      | (75234)     | AGRICULTURAL HANDLERS EXPOSURE TASK FORCE | PER    | ††   |
|                            |                      | (264)       | BAYER CROPSOURCE LP                       | PAY    |      |
|                            |                      | (352)       | E. I. DU PONT DE NEMOURS AND COMPANY      | PAY    |      |
|                            |                      | (1022)      | IBC MANUFACTURING CO                      | PAY    |      |
|                            |                      | (1448)      | BUCKMAN LABORATORIES INC.                 | PAY    |      |
|                            |                      | (3008)      | OSMOSE INC.                               | PAY    |      |
|                            |                      | (3125)      | BAYER CORP                                | PAY    |      |
|                            |                      | ((5383)     | TROY CHEMICAL CORP                        | PAY    |      |
|                            |                      | (6836)      | LONZA INC.                                | PAY    |      |
|                            |                      | (7969)      | BASF CORPORATION                          | PAY    |      |
|                            |                      | (9198)      | THE ANDERSONS LAWN FERTILIZER DIVISION    | PAY    |      |
|                            |                      | (9688)      | CHEMSICO                                  | PAY    |      |
|                            |                      | (11678)     | MAKHTESHIM CHEMICAL WORKS LTD             | PAY    |      |
|                            |                      | (35935)     | NUFARM LIMITED                            | PER    | A1   |
|                            |                      | (39967)     | LANXESS CORPORATION                       | PAY    |      |
|                            |                      | (42750)     | ALBAUGH INC.                              | PAY    |      |
|                            |                      | (43813)     | JANSSEN PMP                               | PAY    |      |
|                            |                      | (51036)     | BASF SPARKS LLC                           | PAY    |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

|  |               |                           |         |             |
|--|---------------|---------------------------|---------|-------------|
| Date   | July 26, 2013 | EPA Reg. No./File Symbol: | 228-XXX | Page 6 of 7 |
| Applicant's/Registrant's Name & Address:   |               | Product Name:             |         |             |
| Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 |               | NUP-12103 Fungicide       |         |             |

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)               | Status | Note |
|----------------------------|----------------------|-------------|---------------------------------------|--------|------|
|                            |                      | (53883)     | CONTROL SOLUTIONS, INC.               | PAY    |      |
|                            |                      | (57227)     | CONTECHEM, INC.                       | PAY    |      |
|                            |                      | (60061)     | KOP-COAT, INC.                        | PAY    |      |
|                            |                      | (60063)     | SIPCAM AGRO USA, INC.                 | PAY    |      |
|                            |                      | (62190)     | ARCH WOOD PROTECTION, INC.            | PAY    |      |
|                            |                      | (62719)     | DOW AGROSCIENCES LLC                  | PAY    |      |
|                            |                      | (66330)     | ARYSTA LIFESCIENCE NORTH AMERICA, LLC | PAY    |      |
|                            |                      | (69361)     | REPAR CORP                            | PAY    |      |
|                            |                      | (70227)     | DIACON TECHNOLOGIES LTD.              | PAY    |      |
|                            |                      | (70506)     | UNITED PHOSPHORUS, INC.               | PAY    |      |
|                            |                      | (71406)     | DR. WOLMAN GMBH                       | PAY    |      |
|                            |                      | (71581)     | ISK BIOCIDES, INC.                    | PAY    |      |
|                            |                      | (71711)     | NICHINO AMERICA, INC.                 | PAY    |      |
|                            |                      | (72155)     | BAYER ADVANCED                        | PAY    |      |
|                            |                      | (72616)     | ZELAM LTD.                            | PAY    |      |
|                            |                      | (73154)     | SAPSTAIN INDUSTRY GROUP (SIG) - CONSO | PAY    |      |
|                            |                      | (74054)     | IRVITA PLANT PROTECTION N.V.          | PAY    |      |
|                            |                      | (74405)     | OSMOSE NEW ZEALAND                    | PAY    |      |

|           |  |                 |  |      |               |
|-----------|--|-----------------|--|------|---------------|
| Signature |  | Name and Title: | Danielle A. Larochelle<br>Registration Manager | Date | July 26, 2013 |
|-----------|--|-----------------|--|------|---------------|



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 7 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-t)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)               | Status | Note |
|----------------------------|----------------------|-------------|---------------------------------------|--------|------|
|                            |                      | (74888)     | RESIDENTIAL EXPOSURE JOINT VENTURE    | PER    | ††   |
|                            |                      | (75082)     | KRUD KUTTER, INC.                     | PAY    |      |
|                            |                      | (75101)     | ARCH WOOD PROTECTION (NZ) LIMITED     | PAY    |      |
|                            |                      | (75506)     | ARCH TREATMENT TECHNOLOGIES, INC.     | PAY    |      |
|                            |                      | (75576)     | US TRIAZOLE TASK FORCE                | PAY    |      |
|                            |                      | (79676)     | GRO-PRO, LLC                          | PER    | A2   |
|                            |                      | (81943)     | PHOENIX ENVIRONMENTAL CARE, LLC       | PAY    |      |
|                            |                      | (81959)     | ETIGRA LLC                            | PER    | A2   |
|                            |                      | (82633)     | SHARDA WORLDWIDE EXPORTS PVT. LTD     | PAY    |      |
|                            |                      | (83162)     | AMERICAN CHEMISTRY COUNCIL            | PAY    |      |
|                            |                      | (83222)     | DIRECT AG SOURCE, LLC                 | PAY    |      |
|                            |                      | (83529)     | SHARDA USA LLC                        | PAY    |      |
|                            |                      | (83851)     | AMTIDE, LLC                           | PAY    |      |
|                            |                      | (83997)     | VIANCE, LLC                           | PAY    |      |
|                            |                      | (84653)     | GENERIC ENDANGERED SPECIES TASK FORCE | PER    | ††   |
|                            |                      | (86505)     | BERKEM DEVELOPMENT                    | PAY    |      |
|                            |                      | (87284)     | WILLOWOOD PROPICONAZOLE, LLC          | PAY    |      |
|                            |                      | (87290)     | WILLOWOOD, LLC                        | PAY    |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 1 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.) | Status | Note |
|----------------------------|----------------------|-------------|-------------------------|--------|------|
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 2 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.) | Status | Note |
|----------------------------|----------------------|-------------|-------------------------|--------|------|
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             |                         |        |      |
|                            |                      |             | 228                     | OWN    |      |
|                            |                      |             |                         |        |      |
|                            |                      |             |                         |        |      |
|                            |                      |             |                         |        |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 3 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

NUP-12103 Fungicide

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.) | Status | Note |
|----------------------------|----------------------|-------------|-------------------------|--------|------|
|                            |                      |             |                         |        |      |
|                            |                      |             |                         |        |      |

FOOTNOTES

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013





## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

|  |               |                           |         |             |
|--|---------------|---------------------------|---------|-------------|
| Date   | July 26, 2013 | EPA Reg. No./File Symbol: | 228-XXX | Page 4 of 7 |
| Applicant's/Registrant's Name & Address:   |               | Product Name:             |         |             |
| Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 |               | NUP-12103 Fungicide       |         |             |
| Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)      |               |                           |         |             |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)                 | Status | Note |
|----------------------------|----------------------|-------------|---|--------|------|
|                            |                      |             |   |        |      |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | PAY    | †    |
|                            |                      |             |   | FOR    |      |
|                            |                      | (100)       | SYNGENTA CROP PROTECTION, LLC           | PAY    |      |
|                            |                      | (7501)      | GUSTAFSON LLC                           | PAY    |      |
|                            |                      | (34704)     | LOVELAND PRODUCTS, INC                  | PAY    |      |
|                            |                      | (61842)     | TESSENDERLO KERLEY, INC                 | PAY    |      |
|                            |                      | (66222)     | MAKHTESHIM AGAN OF NORTH AMERICA, INC   | PAY    |      |
|                            |                      | (66607)     | SPRAY DRIFT TASK FORCE                  | PER    |      |
|                            |                      | (71754)     | OUTDOOR RESIDENTIAL EXPOSURE TASK FORCE | PER    |      |
|                            |                      | (71755)     | AGRICULTURAL REENTRY TASK FORCE         | PER    |      |
|                            |                      | (73989)     | FIFRA ENDANGERED SPECIES TASK FORCE     | PER    |      |

|           |  |                 |  |      |               |
|-----------|--|-----------------|--|------|---------------|
| Signature |  | Name and Title: | Danielle A. Larochelle<br>Registration Manager | Date | July 26, 2013 |
|-----------|--|-----------------|--|------|---------------|



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

|  |               |                           |         |             |
|--|---------------|---------------------------|---------|-------------|
| Date   | July 26, 2013 | EPA Reg. No./File Symbol: | 228-XXX | Page 5 of 7 |
| Applicant's/Registrant's Name & Address:   |               | Product Name:             |         |             |
| Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 |               | NUP-12103 Fungicide       |         |             |

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-t)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)                   | Status | Note |
|----------------------------|----------------------|-------------|---|--------|------|
|                            |                      | (75234)     | AGRICULTURAL HANDLERS EXPOSURE TASK FORCE | PER    |      |
|                            |                      | (264)       | BAYER CROPSOURCE LP                       | PAY    |      |
|                            |                      | (352)       | E. I. DU PONT DE NEMOURS AND COMPANY      | PAY    |      |
|                            |                      | (1022)      | IBC MANUFACTURING CO                      | PAY    |      |
|                            |                      | (1448)      | BUCKMAN LABORATORIES INC.                 | PAY    |      |
|                            |                      | (3008)      | OSMOSE INC.                               | PAY    |      |
|                            |                      | (3125)      | BAYER CORP                                | PAY    |      |
|                            |                      | ((5383)     | TROY CHEMICAL CORP                        | PAY    |      |
|                            |                      | (6836)      | LONZA INC.                                | PAY    |      |
|                            |                      | (7969)      | BASF CORPORATION                          | PAY    |      |
|                            |                      | (9198)      | THE ANDERSONS LAWN FERTILIZER DIVISION    | PAY    |      |
|                            |                      | (9688)      | CHEMSICO                                  | PAY    |      |
|                            |                      | (11678)     | MAKHTESHIM CHEMICAL WORKS LTD             | PAY    |      |
|                            |                      | (35935)     | NUFARM LIMITED                            | PER    |      |
|                            |                      | (39967)     | LANXESS CORPORATION                       | PAY    |      |
|                            |                      | (42750)     | ALBAUGH INC.                              | PAY    |      |
|                            |                      | (43B13)     | JANSSEN PMP                               | PAY    |      |
|                            |                      | (51036)     | BASF SPARKS LLC                           | PAY    |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

|  |               |                           |         |             |
|--|---------------|---------------------------|---------|-------------|
| Date   | July 26, 2013 | EPA Reg. No./File Symbol: | 228-XXX | Page 6 of 7 |
| Applicant's/Registrant's Name & Address:   |               | Product Name:             |         |             |
| Nufarm Americas Inc.<br>4020 Aerial Center Parkway, Suite 101<br>Morrisville, NC 27560 |               | NUP-12103 Fungicide       |         |             |

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)               | Status | Note |
|----------------------------|----------------------|-------------|---------------------------------------|--------|------|
|                            |                      | (53883)     | CONTROL SOLUTIONS, INC.               | PAY    |      |
|                            |                      | (57227)     | CONTECHEM, INC.                       | PAY    |      |
|                            |                      | (60061)     | KOP-COAT, INC.                        | PAY    |      |
|                            |                      | (60063)     | SIPCAM AGRO USA, INC.                 | PAY    |      |
|                            |                      | (62190)     | ARCH WOOD PROTECTION, INC.            | PAY    |      |
|                            |                      | (62719)     | DOW AGROSCIENCES LLC                  | PAY    |      |
|                            |                      | (66330)     | ARYSTA LIFESCIENCE NORTH AMERICA, LLC | PAY    |      |
|                            |                      | (69361)     | REPAR CORP                            | PAY    |      |
|                            |                      | (70227)     | DIACON TECHNOLOGIES LTD.              | PAY    |      |
|                            |                      | (70506)     | UNITED PHOSPHORUS, INC.               | PAY    |      |
|                            |                      | (71406)     | DR. WOLMAN GMBH                       | PAY    |      |
|                            |                      | (71581)     | ISK BIOCIDES, INC.                    | PAY    |      |
|                            |                      | (71711)     | NICHINO AMERICA, INC.                 | PAY    |      |
|                            |                      | (72155)     | BAYER ADVANCED                        | PAY    |      |
|                            |                      | (72616)     | ZELAM LTD.                            | PAY    |      |
|                            |                      | (73154)     | SAPSTAIN INDUSTRY GROUP (SIG) - CONSO | PAY    |      |
|                            |                      | (74054)     | IRVITA PLANT PROTECTION N.V.          | PAY    |      |
|                            |                      | (74405)     | OSMOSE NEW ZEALAND                    | PAY    |      |

|           |  |                 |   |      |               |
|-----------|--|-----------------|---|------|---------------|
| Signature |  | Name and Title: | Danielle A. Laroche<br>Registration Manager | Date | July 26, 2013 |
|-----------|--|-----------------|---|------|---------------|



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date July 26, 2013

EPA Reg. No./File Symbol: 228-XXX

Page 7 of 7

Applicant's/Registrant's Name & Address:

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Product Name:

**NUP-12103 Fungicide**

Ingredient(s): Azoxystrobin (CAS # 131860-33-8); Propiconazole (CAS # 60207-90-1)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter (Company No.)               | Status | Note |
|----------------------------|----------------------|-------------|---------------------------------------|--------|------|
|                            |                      | (74888)     | RESIDENTIAL EXPOSURE JOINT VENTURE    | PER    |      |
|                            |                      | (75082)     | KRUD KUTTER, INC.                     | PAY    |      |
|                            |                      | (75101)     | ARCH WOOD PROTECTION (NZ) LIMITED     | PAY    |      |
|                            |                      | (75506)     | ARCH TREATMENT TECHNOLOGIES, INC.     | PAY    |      |
|                            |                      | (75576)     | US TRIAZOLE TASK FORCE                | PAY    |      |
|                            |                      | (79676)     | GRO-PRO, LLC                          | PER    |      |
|                            |                      | (81943)     | PHOENIX ENVIRONMENTAL CARE, LLC       | PAY    |      |
|                            |                      | (81959)     | ETIGRA LLC                            | PER    |      |
|                            |                      | (82633)     | SHARDA WORLDWIDE EXPORTS PVT. LTD     | PAY    |      |
|                            |                      | (83162)     | AMERICAN CHEMISTRY COUNCIL            | PAY    |      |
|                            |                      | (83222)     | DIRECT AG SOURCE, LLC                 | PAY    |      |
|                            |                      | (83529)     | SHARDA USA LLC                        | PAY    |      |
|                            |                      | (83851)     | AMTIDE, LLC                           | PAY    |      |
|                            |                      | (83997)     | VIANCE, LLC                           | PAY    |      |
|                            |                      | (84653)     | GENERIC ENDANGERED SPECIES TASK FORCE | PER    |      |
|                            |                      | (86505)     | BERKEM DEVELOPMENT                    | PAY    |      |
|                            |                      | (87284)     | WILLOWOOD PROPICONAZOLE, LLC          | PAY    |      |
|                            |                      | (87290)     | WILLOWOOD, LLC                        | PAY    |      |

Signature

Name and Title:

Danielle A. Larochelle  
Registration Manager

Date

July 26, 2013

# Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

| PROPOSED LABEL     |                       |  |
|--------------------|-----------------------|--|
| EPA Registration # | Date Submitted to EPA | Electronic file name                         |
| 000228-00XXX       | July 26, 2013         | 000228-00XXX.20130726.Label_NUP-12103_New EP |

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

  
Signature

July 26., 2013  
Date

Danielle A. Larochelle  
Name (typed)

Registration Manager  
Title

E-SUBMISSION

# NUP-12103 Fungicide

Broad spectrum fungicide for the control of plant diseases.

## ACTIVE INGREDIENTS

Azoxystrobin \* ..... 13.7%

Propiconazole \* ..... 12.0%

OTHER INGREDIENTS: ..... 74.3%

TOTAL: ..... 100.0%

\*Contains 1.2 lb Azoxystrobin and 1.0 lb Propiconazole per Gallon

**KEEP OUT OF REACH OF CHILDREN.**

## WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**SEE LABEL BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-XXX

EPA Est. No. \_\_\_\_\_

MANUFACTURED FOR  
NUFARM AMERICAS INC.  
11901 S. AUSTIN AVENUE  
ALSIP, IL 60803



NET CONTENTS: \_\_\_\_\_ (Gal.) (\_\_\_\_\_ liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

| <b>FIRST AID</b>   |  |
|--|--|
| <b>IF IN EYES</b>  | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF SWALLOWED</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF INHALED</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>   |
| <b>HOTLINE NUMBER</b><br>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information. |  |

### **PRECAUTIONARY STATEMENTS** **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** **WARNING / AVISO**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Controls**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **USER SAFETY RECOMMENDATIONS**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish; and azoxystrobin is toxic to aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify State and/or Federal authorities and Nufarm immediately if you observe any adverse environmental effects due to use of this product.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL AND/OR ILLEGAL RESIDUES.**

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear

## USE PRECAUTIONS

Do not use in nurseries, greenhouses or landscape plantings.

## PRODUCT INFORMATION

This product is a broad spectrum, preventative fungicide with systemic and curative properties for the control of many important plant diseases. This product may also improve the yield and/or quality of crops. These additional benefits are due to positive effects on plant physiology. The effects may vary according to factors such as the specific crop, crop hybrid, or environment. This product may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. Make all applications in accordance to the use directions on this label.

## USE INSTRUCTIONS

**Application:** Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.



**Adjuvants:** For some uses on this label, a spreading/penetrating type adjuvant such as a non-ionic surfactant, crop oil concentrate, or blend may be added at the manufacturer's recommended rates. Adjuvants that contain some form of silicone can contribute to phytotoxicity. When an adjuvant is used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

**Crop Tolerance/Phytotoxicity:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity. Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury in barley, triticale and wheat.

**Efficacy:** Under conditions conducive to extended infection periods, use another registered fungicide for additional applications once the maximum allowable amount of this product has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, product performance may be reduced. When heavy infection pressure exists, when treating varieties highly susceptible to disease, or when environmental conditions are conducive to disease development, best results are obtained when using the higher rates and/or the shorter spray intervals allowed in the crop specific use directions on this label.

**Integrated Pest Management:** Incorporate this product into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices known to reduce the potential for disease development. The CROP SPECIFIC USE DIRECTIONS section of this label identifies specific IPM strategies for each crop. Consult your State Agricultural Experiment Station or Extension Service Specialist for additional IPM strategies established for your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

## **RESISTANCE MANAGEMENT**

This product contains a mixture of Group 3 (propiconazole) and Group 11 (azoxystrobin) fungicides and has two modes of action: 1) Group 3 - Demethylation inhibitor (DMI) of sterol biosynthesis which disrupts membrane synthesis; 2) Group 11 - Inhibitor of the Qo (quinone outside) site within the electron transport system which disrupts fungal respiration. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use this product in accordance with resistance management strategies established for the crop and use area. Consult your State Agricultural Experiment Station or Extension Service Specialist for resistance management strategies that complement those on this label. Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Nufarm encourages responsible resistance management practices to ensure effective long-term control of the fungal diseases on this label.

Follow crop specific recommendations that limit the total number of sprays on a crop and require rotation with fungicides from other resistance management groups. In situations requiring multiple sprays, develop season long spray programs for Group 11 QoI (quinone outside inhibiting) fungicides. For programs including the use of a QoI fungicide as a solo product, avoid making more than 1/3 (33%) of the total number of fungicide applications per season with the QoI containing product. For programs including tank mixtures or premixes of a QoI fungicide with mixing partners of a different mode of action, avoid making more than 1/2 (50%) of the total number of fungicide applications per season with the QoI containing product.

Do not alternate or tank mix this product with any fungicide to which resistance has already developed.

## ROTATIONAL CROP RESTRICTIONS

The following crops may be planted at the specified interval following application of this product.

| CROP  | PLANTBACK INTERVAL |
|---|--------------------|
| Bulb crops<br>Carrots<br>Celery (and other leaf petiole crops - subgroup 4B)<br>Cereals (wheat, barley, triticale)<br>Corn (field, seed, popcorn, and sweet)<br>Grasses grown for seed<br>Mint<br>Oats<br>Peanuts<br>Rice<br>Rye<br>Sorghum<br>Soybeans<br>Strawberries<br>Sugar beets<br>Wild rice | 0 Day              |
| Alfalfa (if propiconazole rate does not exceed 0.22 lb a.i./A per season)   | 75 Days            |
| Buckwheat<br>Millet   | 12 Months          |
| All other crops intended for food and feed  | 105 Days           |

## SPRAY DRIFT MANAGEMENT

To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**

### ATTENTION

This product is extremely phytotoxic to certain apple varieties.

**AVOID SPRAY DRIFT.** Extreme care must be used to prevent injury to apple trees and apple fruit.

**DO NOT** spray this product where spray drift may reach apple trees.

**DO NOT** spray when conditions favor drift beyond the area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Consult your State Agricultural Experiment Station or Extension Service Specialist for spray drift prevention guidelines in your area.

**DO NOT** spray apple trees with spray equipment previously used to apply this product. Even trace amounts of product may cause unacceptable phytotoxicity to certain apple and crabapple varieties.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

## MIXING AND APPLICATION INSTRUCTIONS

### Spray Equipment

All types of spray equipment commonly used for ground and aerial applications may be used with this product. Ensure proper adjustment and calibration of spray equipment to obtain good canopy penetration and coverage which is essential for good disease control.

### **Nozzles**

- Equip sprayer with nozzles that provide accurate and uniform application.
- Use nozzles that are the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- Use screens 16-mesh or coarser on the suction side of the pump.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Follow nozzle manufacturer use guidelines.

### **Pump**

- Use a pump with capacity to:
  - a) Maintain 35 to 40 psi at nozzles.
  - b) Provide sufficient agitation in tank to keep mixture in suspension (use a jet agitator or liquid sparge tube for agitation).

For more information on spray equipment and calibration, consult sprayer manufacturer. For specific local directions and spray schedules, consult your State Agricultural Experiment Station or Extension Service Specialist for advice.

### **Spray Solution Preparation**

- Prepare only the amount of spray solution required for immediate use. Do not allow spray mixture to stand overnight or for prolonged periods.
- Proper mixing of this product with water requires use of a spray tank equipped with agitation.
- Thoroughly clean spray equipment before preparing the spray solution.
- Maintain constant agitation before and throughout the spraying operation.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

### **Stand-alone product solution:**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- With the agitator running, add the specified amount of this product to the tank.
- Continue agitation while adding the remainder of the water and allow time for good dispersion.
- Begin application of the spray solution after the product has completely dispersed in the mix water and maintain agitation during spraying.

### **Tank mixture with other products:**

- A. **Compatibility:** This product is compatible with many pesticides and additives commonly used in tank mixtures. Do not tank mix with other pesticides, surfactants, or fertilizers unless the mixture has been determined to be compatible and non-injurious to the crop under your conditions of use. To determine the physical compatibility of this product with tank mix partners prior to full scale use, conduct a jar test as follows: Using a quart jar, add proportionate amounts of the tank mixture components to 1 quart of water in the following order: 1) wettable powders and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, 4) additives and adjuvants. Mix thoroughly and let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been confirmed, use the same procedure for adding the tank mix partners to the spray tank.

**NOTE:** Some phytotoxicity may be observed when applying tank mixtures of this product with emulsifiable concentrate (EC) formulations. These effects may be enhanced if applications are made under cool, cloudy conditions that remain for several days following application. In addition, adjuvants that contain some forms of silicone may also contribute to phytotoxicity.

### **B. Mixing instructions**

- Add  $\frac{1}{2}$  to  $\frac{3}{4}$  of the required amount of water to a spray or mixing tank and begin agitation.
- While agitator running, add tank mix partners to the tank in the following order: 1) wettable powder and water dispersible granule (WDG) formulations, 2) liquid flowables, 3) emulsifiable concentrates, and 4) additives and adjuvants.
- Allow the material to completely dissolve / disperse into the mix water.

- Continue agitation while adding the remainder of the water and this product to the tank mix and allow time for good dispersion.
- Begin application of the spray mixture while maintaining agitation.

### **Application Instructions**

Observe the most restrictive of the tank mix components label limitations and precautions.

#### **Ground Application**

- For field crops (non-trees), apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.

#### **Aerial Application**

- Use only on crops where aerial application is indicated.
- For field crops (non-trees), use a minimum spray volume of 2 gallons per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- For ULV applications (corn), use a minimum spray volume of 1 gallon per acre. Thorough coverage is necessary for good results. Refer to the crop specific application instructions for details regarding best practices to achieve good coverage.
- For tree crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise in the CROP SPECIFIC DIRECTIONS FOR USE.
- Ensure thorough coverage for good disease control.
- This product is extremely phytotoxic to certain apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be taken to prevent injury to apple trees (and apple fruit).
- DO NOT spray this product where spray drift may reach apple trees.

### **INSTRUCTIONS FOR USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION)**

- Use only on crops for which chemigation is specified on this label.
- Apply this product through sprinkler irrigation systems including center pivot, moving wheel, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- Non-uniform distribution of treated water may result in crop injury, lack of effectiveness, or illegal pesticide residues in the crop.
- Apply in 0.1-0.25 inches of water per acre. Excessive water may reduce efficacy.
- Contact your State Extension Service Specialist, equipment manufacturer, or other experts for questions regarding calibration.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Spray Preparation:** Thoroughly clean chemical tank and injector system. Flush system with clean water.

#### **Operating Instructions:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
8. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
9. Do not apply when wind speed favors drift beyond the target area.

#### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when applying this product through center pivot systems as it may result in non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 0.125 to 0.25 inch of water per acre over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product and sufficient water to the solution tank to meet the injection time requirements.
- Make sure the system is fully charged with water before starting injection of the spray solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant agitation of the spray solution during the injection period.
- Continue to operate the system until the spray solution has cleared the sprinkler head.

#### **Solid Set, Hand Move, and Moving Wheel Irrigation Equipment**

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying this product through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the spray solution has cleared the last sprinkler head.

#### **Specific Instructions for Public Water Systems**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid

from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

## CROP SPECIFIC DIRECTIONS FOR USE

### ALMONDS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria leaf spot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum acutatum)</i><br>Leaf Blight<br><i>(Seirmatosporium lichenicola)</i><br>Leaf rust<br><i>(Tranzschelia discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shot hole<br><i>(Wilsonomyces carpophilus)</i>   | 17.5 – 26                     | Apply beginning at bud break and repeat at 7- to 14-day intervals. Make no more than 2 consecutive applications before switching to a non-Group 11 fungicide.   |
| Brown Rot Blossom Blight<br><i>(Monilinia spp.)</i>   | 14 - 26                       | Apply at early bloom stage. If disease pressure is low, make a second application of 14 fl oz/A as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, treat at 50-75% bloom and petal fall if needed. Use this product for no more than 2 blossom blight applications. |
| <b>Notes:</b><br>Make no more than 2 sequential applications of a Group 11 fungicide prior to alternating with another product with a different mode of action. Almond diseases are more effectively controlled by ground application using sufficient water volume to provide thorough and uniform coverage. Aerial application may be used if necessary but disease control may be reduced. Apply by air only at growth stages prior to and including 5 weeks after petal fall. Use a minimum application volume of 15 gallons/A. |                               |   |
| <b>Use Limitations</b> <ul style="list-style-type: none"> <li>♦ Do not apply more than 112 fl oz/A per crop.</li> <li>♦ Do not apply more than 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crop for feed.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days.</li> </ul>                               |                               |   |

# BANANAS, PLANTAINS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Black Sigatoka<br><i>(Mycosphaerella fijiensis)</i><br>Yellow Sigatoka<br><i>(Mycosphaerella musicola)</i>   | 10.5                          | Apply in 10-20 gallons of water/A before disease symptoms appear at the onset of the rainy season.<br>Apply by ground (minimum of 15 gal./A) or air (minimum of 5 gal./A).<br>Make no more than two (2) consecutive applications at 21- to 25- day intervals before rotating to another fungicide with a different mode of action for at least 2 sprays.<br>Do not exceed 8 applications per season. To help prevent resistance development, avoid the application of triazole pesticides for at least 2 consecutive months during periods of lower disease pressure. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply within 100 yards of non-bagged bananas.</li> <li>◆ Do not apply on bananas unless they are protected by polyethylene bags.</li> <li>◆ Do not apply on plantains if the fruit present are not protected with polyethylene bags.</li> <li>◆ Do not apply more than 84 fl oz of this product during each growing season (this includes any preharvest sprays).</li> <li>◆ Do not feed whole bananas or plantains to animals.</li> <li>◆ Do not apply more than 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.08 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> </ul> |                               |   |



## BEANS, DRY AND SUCCULENT

**Cicer arletinum** (chickpea, garbanzo bean); **Lupinus spp.** (including sweet lupine, white sweet lupine, white lupine, and grain lupine);  
**Phaseolus spp.** (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); **Vicia faba** (broad bean, fava bean);  
**Vigna spp.** (including asparagus bean, blackeyed pea and cowpea)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Alternaria blight<br>( <i>Alternaria</i> spp.)<br>Alternaria leaf spot<br>( <i>Alternaria alternata</i> )<br>Anthracnose<br>( <i>Colletotrichum lindemulhianum</i> )<br>Ascochyta blight<br>( <i>Mycosphaerella pinodes</i> )<br>Ascochyta leaf and pod spot<br>( <i>Ascochyta</i> spp.)<br>Ascochyta leaf spot<br>( <i>Ascochyta phaseolorum</i> )<br>Bean rust<br>( <i>Uromyces appendiculatus</i> )<br>Rust<br>( <i>Phakopsora</i> spp.)<br>Southern blight<br>( <i>Sclerotium rolfsii</i> )<br>Web blight<br>( <i>Rhizoctonia solani</i> )  | 10.5 - 14                     | Begin applications when conditions are conducive to disease development. Make up to 3 applications at 7- to 14-day intervals.<br><br>Apply by ground or by air.<br><br><b>NOTE:</b> Application of this product on certain bean varieties may cause crinkled and/or greener leaves. Yield reductions have not been observed in treated beans displaying these characteristics. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Not for use on cowpea cultivars intended for livestock feeding only.</li> <li>◆ Do not apply more than 42 oz. of this product/crop/A.</li> <li>◆ Do not apply more than 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI):               <ul style="list-style-type: none"> <li>• Dry bean - 14-Days</li> <li>• Succulent beans - 7 Days</li> </ul> </li> </ul> |                               |  |

# BERRIES - BUSHBERRY Subgroup 13-07B

Aronia berry; Blueberry (highbush and lowbush); Buffalo Currant; Chilean Guava; Cranberry (highbush); Currant (black and red); Elderberry; European Barberry; Gooseberry; Honeysuckle (edible); Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Lingonberry; Native Currant; Salal; Sea Buckthorn; and all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Botryosphaeria canker<br><i>(Botryosphaeria spp.)</i><br>Leaf Spot and Stem Canker<br><i>(Septoria albopunctata)</i><br>Leaf Spot<br><i>(Septoria spp.)</i><br>Mummyberry<br><i>(Monilinia vaccini-cotynbosi)</i><br>Phomopsis Twig Blight, Fruit Rot,<br>and Stem Canker<br><i>(P. vaccine)</i><br>Powdery Mildew<br><i>(Microsphaera vaccinii)</i><br>Rust<br><i>(Pucciniastrum vaccinii)</i>                  | 14 - 21                       | <p>For mummyberry, make the first application at green tip and repeat in 7 to 10 days. If conditions are favorable for disease development, apply at pink bud and repeat applications at 7- to 10- day intervals through petal fall.</p> <p>For other diseases: begin applications prior to disease development and continue throughout the season at 7- to 14-day intervals.</p> <p>Apply by ground or by air (minimum of 15 gal./A).</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides.</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not apply more than 82 fl oz/A per crop.</li> <li>◆ Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Pre-harvest Interval (PHI) = 30 Days.</li> </ul> |                               |  |

### BERRIES - CANEBERRY Subgroup 13-07A

Blackberry; Bingleberry; Boysenberry; Dewberry; Loganberry; Lowberry; Marionberry; Olallieberry; Raspberry (red and black); Raspberry (wild); Youngberry; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br><i>(Spaceloma necafor)</i> ,<br><i>(Elsinoe veneta)</i><br>Botryosphaeria canker<br><i>(Botryosphaeria dothidea)</i><br>Leaf and Cane Spot<br><i>(Septoria rubi)</i><br>Leaf spot<br><i>(Septoria spp.)</i><br>Powdery mildew<br><i>(Sphaerotheca macularis)</i><br>Rosette or double blossom of<br>blackberries<br><i>(Cercospora rubi)</i><br>Rust<br><i>(Phragmidium violaceum)</i>                    | 14 - 21                       | Begin applications prior to disease development and continue throughout the season at 14-day intervals.<br>Apply by ground or by air (minimum of 15 gal./A).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than three (3) applications per crop of this product or other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 105 fl oz/A of this product per crop.</li> <li>Do not apply more than 0.84 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest interval (PHI) = 30 Days.</li> </ul> |                               |  |

# **BERRIES – STRAWBERRIES and LOW GROWING BERRY Subgroup 13-07G (Except Cranberry)**

Bearberry; Bilberry; Cloudberry; Muntries; Partridgeberry; Strawberry; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Anthracnose<br>( <i>Colletotrichum</i> spp.)<br>Leaf Rust<br>( <i>Phragmidium potentillae</i> )<br>Leaf Spot<br>( <i>Cercospora fragariae</i> )<br>Powdery Mildew<br>( <i>Sphaerotheca macularis</i> )  | 14                            | Begin applications prior to disease development and repeat at 7- to 14-day intervals.<br>Apply by ground (20 gal/A minimum) or air (15 gal./A minimum).<br>Do not make more than two (2) consecutive applications of this product before alternating with a non-Group 11 fungicide. Do not make more than four (4) applications per season of this product or any other Group 11 fungicides. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 0 Day.</li> </ul> |                               |  |

# **BULB VEGETABLES, Crop Group 3-07**

**Garlic; Leek; Bulb Onion** [Chinese onion (bulb); daylily (bulb); fritillaria (bulb); garlic (bulb); great-headed garlic (bulb); lily (bulb); onion (bulb); pearl onion; potato onion (bulb); serpent garlic (bulb); shallot (bulb)]; **Green Onion** [Beltsville bunching onion; Chinese chive (fresh leaves); chive (fresh leaves); elegans hosta; fresh onion; fritillaria (leaves); green onion; kurrat; lady's leek; leek; macrostem onion; shallot (fresh leaves); tree onion (tops); Welsh onion (tops); wild leek]; all cultivars, varieties, and/or hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Cladosporium leaf blotch<br>( <i>Cladosporium allii</i> )<br>Purple blotch<br>( <i>Alternaria porri</i> )<br>Rust<br>( <i>Puccinia allii</i> )   | 14 - 21                       | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the higher rate and shorter interval when disease conditions are severe.<br>Apply by ground (15 gal./A minimum) or air (minimum of 5 gal./A).<br>Make only 1 application before alternating with a non-Group 11 fungicide. |
| Botrytis leaf blight<br>( <i>Botrytis squamosa</i> )<br>Downy mildew<br>( <i>Peronospora destructor</i> )<br>White Rot<br>( <i>Sclerotium cepivorum</i> )  | 17.5 - 26                     | <b>Note:</b> Tank mixing this product with emulsifiable concentrate (EC) formulations may result in phytotoxicity   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not apply more than 56 fl oz/A per season of this product per crop.</li> <li>Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>Green onions = 0 Day</li> <li>Dry bulb onions = 14 Days</li> </ul> </li> </ul> |                               |   |

## CARROT

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria Leaf Blight<br><i>(Alternaria dauci)</i><br>Early blight<br><i>(Cercospora carotae)</i><br>Powdery Mildew<br><i>(Erysiphe polygoni)</i>  | 14                            | Begin applications when conditions favor disease development and continue throughout the season at 7- to 10-day intervals. Use the shorter interval when disease conditions are severe.<br><br>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation.<br><br>Do not make more than one application of this product before alternating with a non- Group 11 fungicide. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply more than 56 fl oz/A of this product per crop.</li> <li>♦ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 14 Days.</li> </ul> |                               |   |

## CELERY

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Early blight<br><i>(Cercospora apii)</i><br>Late blight<br><i>(Septoria apicola)</i>   | 14                            | Apply at 7- to 10-day intervals alternating with a fungicide that has a different mode of action.<br><br>Apply by ground, air (minimum of 5 gal/A) or chemigation.<br><br>Do not make more than one application of this product or other Group 11 fungicides before |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply more than 56 fl oz/A of this product per crop.</li> <li>♦ Do not apply more than 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not apply more than 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> </ul> Pre-harvest Interval (PHI) = 14 Days. |                               |   |

# CEREALS\*

Barley, Oats, Rye, Triticale

\* See Crop Specific Use Directions for other cereals: Cereal (wheat), Corn (Field, Pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Barley Scald<br><i>(Rhynchosporium secalis)</i><br>Barley Stripe<br><i>Pyrenophora graminea</i><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br><i>Helminthosporium</i> Leaf Blight<br><i>(Drechslera tritici-repentis)</i><br>Kernel Blight<br><i>(Alternaria spp.)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Net blotch<br><i>(Pyrenophora teres)</i><br>Powdery Mildew<br><i>(Blumeria spp., Erysiphe spp.)</i><br>Spot Blotch<br><i>(Bipolaris sorokiniana)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>   | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>Make applications no more frequently than every 14 days.               |
| Foot Rot/Eyespot<br><i>(Tapesia spp.)</i>   | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.                                    |
| <b>Early Season Suppression</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp., Erysiphe spp.)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see above).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation. This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage. An adjuvant may be added at specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 2 applications/A per season.</li> <li>Do not apply after Feekes 10.54.</li> <li>Do not exceed 28 fl oz/A of this product per season.</li> <li>Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 7 Days for Forage and Hay</li> <li>Under certain environmental conditions, tank mixtures of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

# CEREALS \*

## Wheat

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Corn (field, pop), Corn (sweet), Rice (including wild rice), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Early Season Suppression</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp.)</i> ,<br><i>(Erysiphe spp.)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>  | 7 - 14                        | Apply this product in the spring for suppression of early season diseases. Follow with a second application for full season control (see below).<br><br>Flecking and burning may be observed if mixing with fertilizers and herbicides at this timing.   |
| <b>Control of Leaf Diseases</b><br>Glume Blotch<br><i>(Stagonospora nodorum)</i><br>Helminthosporium Leaf Blight<br><i>(Drechslera tritici-repentis)</i><br>Leaf Blight<br><i>(Septoria tritici)</i><br>Powdery Mildew<br><i>(Blumeria spp.)</i> ,<br><i>(Erysiphe spp.)</i><br>Rust<br><i>(Puccinia spp.)</i><br>Spot Blotch<br><i>(Bipolaris sorokiniana)</i><br>Tan Spot<br><i>(Pyrenophora tritici-repentis)</i>   | 10.5 - 14                     | Protecting the flag leaf is important for maximizing yields. Highest yields are normally obtained when applications are made when the flag leaf is 50% to fully emerged.<br><br>The minimum application interval is 14 days. Applications may continue through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues. |
| Foot Rot/Eyespot<br><i>(Tapesia spp.)</i>  | 14                            | Apply the full rate specified for this product plus half the rate specified on the label for another EPA-registered fungicide containing thiophanate-methyl. Apply at tillering but before elongation has occurred.  |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>This product is most effective when applied and allowed to dry before a rainfall. Ensure thorough coverage for best results. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions do not favor good coverage.  |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 2 applications/A per season.</li> <li>Do not apply after Feekes 10.54.</li> <li>Do not exceed 28 fl oz/A of this product per season.</li> <li>Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.40 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 7 Days for Forage and Hay</li> <li>Under certain environmental conditions, tank mixes of this product with herbicides and/or fertilizers may cause crop injury.</li> </ul> |                               |  |

## Field, Pop (Including Seed Production)

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Anthracnose leaf blight<br>( <i>Colletotrichum graminicola</i> )<br>Eye spot<br>( <i>Aureobasidium zeae</i> )<br>Gray leaf spot<br>( <i>Cercospora zeae-maydis</i> )<br>Northern corn leaf blight<br>( <i>Sclerotinia turcica</i> )<br>Northern corn leaf spot<br>( <i>Cochliobolus carbonum</i> )<br>Physoderma brown spot<br>( <i>Physoderma maydis</i> )<br>Rusts<br>( <i>Puccinia</i> spp.)<br>Southern corn leaf blight<br>( <i>Cochliobolus heterostrophus</i> )<br>also known as:<br>Helminthosporium leaf blights<br>( <i>H. maydis</i> , <i>H. furcicum</i> ,<br><i>H. carbonum</i> ) | 10.5                          | <b>Early Application (V4 – V8)</b><br>Make an early application (V4-V8) for early season disease control and plant performance benefits.  |
| Suppression of:<br>Diplodia ear rot<br>( <i>D. maydis</i> )  | 10.5 - 14                     | <b>Later Season Application</b><br><u>For gray leaf spot, rusts, anthracnose, and eye spot,</u> begin applications when disease first appears. If conditions favorable for disease persist, repeat applications at 14-day intervals.<br><u>For leaf blights:</u> apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.<br><br>Do not use adjuvants or other additives after the V8 growth stage and prior to the VT growth stage as use during these development stages may impose stress on the plant that could inhibit proper kernel development. VT is defined as when the last branch of the tassel is completely visible but silks have not yet emerged from the ear shoot.<br><br>Do not make more than two (2) applications of this product or other Group 11 fungicides per year.<br><br>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control. |
| <b>Notes:</b><br>Ensure thorough coverage for best results. For ULV aerial applications DO NOT use less than 1.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions do not favor good coverage.<br>Apply by ground, air (ULV), or chemigation.   |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 56 fl oz/A of this product per season.<br>♦ Do not exceed 28 fl oz (0.224 lb propiconazole a.i.) for field corn harvested for forage.<br>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest interval (PHI) = 30 Days for forage, grain, and stover.   |                               |   |



## CORN \*

### Sweet Corn (Including Seed Production)

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Rice (including wild rice), Sorghum

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Anthracnose leaf blight<br><i>(Colletotrichum graminicola)</i><br>Eye spot<br><i>(Aureobasidium zeae)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Northern corn leaf blight<br><i>(Sefosphaeria turcica)</i><br>Northern corn leaf spot<br><i>(Cochliobolus carbonum)</i><br>Rusts<br><i>(Puccinia spp.)</i><br>Southern corn leaf blight<br><i>(Cochliobolus heterostrophus)</i>  | 10.5 - 14                     | <p>Begin applications when disease first appears. If conditions favorable for disease development persist, repeat applications at 14-day intervals.</p> <p><u>For leaf blights:</u> apply when disease first appears. Repeat applications at 7- to 14-day intervals. Use the lower rate when disease pressure is low. Use the higher rate under heavy disease pressure or if conditions are favorable for disease development.</p> <p>Alternate applications of this product with another fungicide that has a different mode of action.</p> |
| <b>Notes:</b><br>Ensure thorough coverage for best results.<br>Apply by ground, air (ULV), or chemigation.<br>For aerial applications, use of a crop oil concentrate may reduce evaporation and enhance canopy penetration and coverage. Consult your aerial applicator for effective concentrations of crop oil concentrate.<br>DO NOT use less than 1.0 GPA for ULV applications. Use higher water volumes for aerial applications if equipment and/or conditions do not favor good coverage. |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 56 fl oz/A of this product per season.</li> <li>♦ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 14 Days for ears or forage.</li> </ul>   |                               |  |

## CRANBERRY

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Cottonball<br><i>(Monilinia oxycocci)</i><br>Fruit rots<br><i>(Phylospora vaccinii)</i><br><i>(Glomerella cingulata)</i><br><i>(Coteophoma empetri)</i><br>Lophodermium twig blight<br><i>(Lophodermium spp.)</i>   | 14 - 21                       | <p>Make the first application at leaf bud break and repeat 14 days later. Make additional applications at early bloom. Do not make more than two (2) consecutive sprays before alternating to a non-Group 11 fungicide.</p> <p>For resistance management, make no more than 3 sprays per season using any Group 11 (QoI containing) fungicide. Under severe disease pressure, use the higher specified rate.</p> <p>Apply by ground (minimum of 10 gal./A) or air (minimum of 20 gal./A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 84 fl oz/A of this product per crop.</li> <li>♦ Do not exceed 0.67 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 45 Days.</li> <li>♦ Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.</li> <li>♦ Do not treat cranberry fields used for aquaculture of fish and crustacea.</li> <li>♦ Do not apply to flooded crop.</li> <li>♦ Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Use care when making applications near non-target aquatic habitats.</li> <li>♦ Use is limited to Oregon, Washington, and Wisconsin only.</li> </ul> |                               |   |

## FILBERT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Eastern filbert blight<br><i>(Anisogramma anomala)</i>   | 14 - 21                       | <p>Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p><b>NOTE:</b> Applications of this product on certain varieties of filbert, may cause smaller and/or greener leaves. Yields of filbert displaying these characteristics have not been reduced due to treatment.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crop for feed.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days.</li> </ul> |                               |  |

### GRASSES (Grown for Seed)

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Ergot Stem Diseases<br>Powdery mildew<br>( <i>Erysiphe graminis</i> )<br>Rust<br>( <i>Puccinia</i> spp.)<br>Selenophoma Stem Eyespot<br>( <i>Selenophoma</i> spp.)  | 14 - 26                       | Apply when powdery mildew infections, <i>Selenophoma</i> infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. To maximize control of severe rust pressure, apply 26 fl. oz/A (for bluegrass apply 14 fl oz/A) at 14-day intervals until the seed is mature.<br><u>For bluegrass</u> , it is important to begin application early in the growing season.<br>Do not make more than two (2) sequential applications of this product or other Group 1 fungicides before alternating with a fungicide that has a different mode of action. |
| <b>Notes:</b><br>This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. Apply by ground in a minimum of 20 gallons of water per acre or by air in a minimum of 10 gallons of water per acre.<br>Apply by ground, air, or chemigation.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 86 fl oz/A of product per season.</li> <li>Do not exceed the equivalent of 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 20 Days for seed.</li> <li>Do not feed hay cut within 20 days of the last application.</li> <li>Do not graze treated areas within 140 days of the last application.</li> <li>Use is limited to Idaho, Minnesota, Nebraska, Oregon, and Washington only.</li> </ul> |                               |   |

### MINT

#### Peppermint, Spearmint

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Powdery mildew<br>( <i>Erysiphe</i> spp.)<br>Rust<br>( <i>Puccinia menthae</i> )  | 10.5 - 14                     | Begin applications when the plants are 2 to 4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.<br>Apply by ground (minimum of 20 gal./A) or chemigation. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 28 fl oz/A of product per crop.</li> <li>Do not exceed 0.22 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 7 Days.</li> </ul> |                               |   |

# PEANUT

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| <b>Foliar diseases</b><br>Early leaf spot<br><i>(Cercospora arachidicola)</i><br>Late leaf spot<br><i>(Cercosporidium personatum)</i><br>Rust<br><i>(Puccinia arachidis)</i><br>Web blotch<br><i>(Phoma arachidicola)</i>  | 10.5 - 14                     | Apply beginning 35 to 40 days after planting or at the first appearance of disease. Repeat applications at 14-day intervals. Use the higher specified application rate under heavy disease pressure.<br><br>This product may be used in State Agricultural Extension advisory programs (disease forecasting) which advises on application timing based on environmental factors favorable for disease development.<br><br>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.  |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crotalariae)</i><br>Pythium pod rot<br><i>(Pythium myriotylum)</i>   | 21 - 28                       | Apply this product as a foliar spray approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply 28 fl oz/Acre of product. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply 21-28 fl oz/Acre of product.   |
| <b>Soil-borne diseases – mid to late season</b><br>Rhizoctonia peg and pod rot<br><i>(Rhizoctonia solani)</i><br>Stem rot / White mold / Southern blight<br><i>(Sclerotium rolfsii)</i><br><br><b>Suppression only:</b><br>Cylindrocladium black rot<br><i>(Cylindrocladium crotalariae)</i><br>Pythium pod rot<br><i>(Pythium myriotylum)</i>   | 14 – 28                       | <b>Tank Mixture with Nufarm's NUP-08099</b><br>Apply 14 fl oz of this product in a tank mix with Nufarm's NUP-08099 or another fungicide for control of soil-borne diseases. A minimum of 0.15 lb azoxystrobin a.i./A should be used in the tank mix (refer to the rate conversion table below).<br><u>Note:</u> Do not apply more than 0.4 lb of azoxystrobin a.i./A per application.<br><br>Apply the tank mixture as a foliar spray at approximately 60 and 90 days after planting. Make both applications earlier in the season if environmental conditions favor disease development. These foliar treatments will provide protection against soil-borne diseases as well as control of listed foliar diseases for a period of 10 to 14 days after each spray.<br><br>Under heavy disease pressure and/or abundant rainfall and/or irrigation, apply a total of 0.3 to 0.4 lb azoxystrobin a.i. per application. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), apply a total of 0.2 to 0.4 lb azoxystrobin a.i. per application. |
| <b>Notes:</b><br>Apply by ground, air, or chemigation.<br>When applying this product by chemigation or as a directed ground application, additional application methods should be employed for leaf spot control   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 56 fl oz/A of product per season.</li> <li>Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 0.80 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 14 Days when using a maximum application rate of 14 fl oz/A.</li> <li>Pre-harvest Interval (PHI) = 21 Days when using application rates greater than 14 fl oz/A.</li> <li>Do not feed hay from treated fields to livestock if using application rates greater than 14 fl oz/A.</li> </ul> |                               |  |

## PECANS

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Anthracnose<br>( <i>Glomerella cingulata</i> )<br>Downy spot<br>( <i>Mycosphaerella caryigena</i> )<br>Liver spot<br>( <i>Gnomonia caryae</i> pv <i>pecanae</i> )<br>Pecan scab<br>( <i>Cladosporium caryigenum</i> )<br>Powdery mildew<br>( <i>Microsphaera penicillata</i> )<br>Vein spot<br>( <i>Gnomonia nerviseda</i> )<br>Zonate leaf spot<br>( <i>Cristulariella moricola</i> )   | 14-21                         | <p>For Pecan Scab: Apply 14 to 21 fl oz product/A at 14-day intervals during bud break and pre-pollination sprays. Apply 20 to 21 fl oz product/A during nut formation and cover sprays. Use higher rates when disease pressure is heavier. Do not apply after shuck split.</p> <p><u>Other foliar diseases:</u> For control of mid to late season foliar diseases, apply 14 to 20.5 fl oz of this product/A in a tank mix with other fungicides registered for control of these diseases on pecans..</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Use of an adjuvant such as a crop oil concentrate (COC) may improve disease control.</p> |
| <b>Notes:</b><br>Apply by ground or air (minimum of 20 gal/A).<br>For ground applications, use sufficient water to ensure thorough coverage.   |                               |   |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 115 fl oz/A of product per season.</li> <li>Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 45 Days or no later than shuck split, whichever is first.</li> <li>Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |   |

## PISTACHIOS

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Alternaria late blight<br>( <i>Alternaria alternata</i> )<br>Botryosphaeria panicle and shoot blight<br>( <i>Botryosphaeria dothidea</i> )<br>Septoria leaf spot<br>( <i>Septoria pisifaciarum</i> )  | 17.5 - 21                     | <p>Begin applications when green leaf tissue becomes visible and repeat application at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval.</p> <p>Do not make more than two (2) sequential applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>Do not exceed 112 fl oz/A of product per crop.</li> <li>Do not exceed 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>Pre-harvest Interval (PHI) = 60 Days.</li> <li>Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |   |

### RICE (including WILD RICE) \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Sorghum

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Aggregate Sheath Spot<br>( <i>Rhizoctonia oryzae-sativae</i> )<br>Black Sheath Rot<br>( <i>Gaeumannomyces graminis</i> )<br>Brown leaf spot<br>( <i>Helminthosporium oryzae</i> )<br>Kernel smut<br>( <i>Tilletia barclayana</i> )<br>Leaf blast<br>( <i>Pyricularia grisea</i> )<br>Leaf smut<br>( <i>Entyloma oryzae</i> )<br>Narrow brown leaf spot<br>( <i>Cercospora oryzae</i> )<br>Panicle blast<br>( <i>Pyricularia grisea</i> )<br>Sheath Blight<br>( <i>Rhizoctonia solani</i> )<br>Sheath Spot<br>( <i>Rhizoctonia oryzae</i> )<br>Stem Rot<br>( <i>Sclerotium oryzae</i> )<br><br><b>Disease Suppression</b><br>False Smut<br>( <i>Ustilaginoidea virens</i> )   | 14-27                         | <p>Application timing depends on disease severity, disease complex, rice variety, and growth stage. Consult your State Agricultural Experiment Station or Extension Service Specialist for local economic thresholds established for various rice varieties and diseases.</p> <p><u>For Leaf Blast:</u> Apply 21 to 27 fl oz/A for preventive control.</p> <p><u>For Panicle Blast:</u> Apply at 10% head emergence followed with an application of Nufarm's NUP-08099 at 90% emergence. Refer to the label for NUP-08099 for rates and timing.</p> <p><u>All other leaf/stem diseases:</u> Apply 15.75 to 27 fl oz/A at initial sign of disease. Use higher rates when under heavy disease pressure or when environmental conditions are highly favorable for disease development. Make a second application 14 days later.</p> <p><u>Tank mix option:</u> Use 15.75 to 20.5 fl oz/A of this product in a tank mix with Nufarm's NUP-08099 or other fungicides for control of rice diseases. Use a minimum of 0.15 lb azoxystrobin a.i./A in the tank mix (refer to the rate conversion table in this label). Do not exceed 0.3 lb azoxystrobin a.i./A per application to rice or 0.25 lb azoxystrobin a.i./A per application to wild rice.</p> <p>Use the lower application rate of 14 fl oz/A for hybrids only or varieties with at least moderate resistance to sheath blight. Apply from late boot to boot split for control of diseases (except leaf blast and false smut) of rice (including wild rice). When applying prior to late boot or after boot split growth stages, use the higher rates listed above.</p> <p>Do not make more than two (2) foliar applications of this product or other Group 11 fungicide per acre per season.</p> |
| <b>Notes:</b><br>For aerial application, use volumes of 5-10 GPA. An adjuvant may be added at label specified rates to improve canopy coverage and penetration while reducing evaporation and drift.   |                               |  |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>♦ Do not apply to stubble or ratoon crop rice.</li> <li>♦ Do not treat rice fields where commercial farming of crayfish will be practiced.</li> <li>♦ Do not drain water from treated rice fields into ponds used for commercial fish farming.</li> <li>♦ Do not use water drained from treated fields to irrigate other crops.</li> <li>♦ Do not exceed 42 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 0.7 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Do not release floodwater within 14 days of application.</li> <li>♦ Pre-harvest Interval (PHI) = 35 Days.</li> </ul> |                               |  |

## SORGHUM \*

\* See Crop Specific Use Directions for other cereals: Cereals (barley, oats, rye, triticale), Cereal (wheat), Corn (field, pop), Corn (sweet), Rice (including wild rice)

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Anthracnose<br><i>(Colletotrichum graminicola)</i><br>Ergot<br><i>(Claviceps sorghi)</i><br>Gray leaf spot<br><i>(Cercospora sorghi)</i><br>Ladder Leaf Spot<br><i>(Cercospora fusimaculans)</i><br>Leaf Blight<br><i>(Exserohilum turcicum)</i><br>Zonate Leaf Spot<br><i>(Gloeocercospora sorghi)</i>  | 10.5 - 14                     | For ergot control, make the first application at or just prior to flowering. Repeat at 5- to 7-day intervals.<br>For other diseases, apply at first sign of disease. Continue applications at 14-day intervals.<br>Apply by ground or air. |
| <b>Use Limitations:</b> <ul style="list-style-type: none"> <li>◆ Do not exceed 56 fl oz/A of product per crop.</li> <li>◆ Do not exceed 0.45 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>◆ Do not apply more than 28 fl oz (0.22 lb propiconazole a.i.) on sorghum harvested for forage.</li> <li>◆ For sorghum grown for grain and/or stover, do not exceed 0.75 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ For sorghum grown for forage, do not exceed 0.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>◆ Do not graze livestock or cut for green chop or silage within 30 days of application.</li> <li>◆ Pre-harvest Interval (PHI)               <ul style="list-style-type: none"> <li>○ PHI = 21 Days for grain or stover</li> <li>○ PHI = 30 Days for forage</li> </ul> </li> </ul> |                               |  |

# SOYBEAN

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions   |
|--|-------------------------------|--|
| Aerial web blight<br><i>(Rhizoctonia solani)</i><br>Alternaria leaf spot<br><i>(Alternaria spp.)</i><br>Anthracnose<br><i>(Colletotrichum truncatum)</i><br>Brown spot<br><i>(Septoria glycines)</i><br>Cercospora blight and leaf spot<br><i>(Cercospora kikuchii)</i><br>Frogeye leaf spot<br><i>(Cercospora sojina)</i><br>Pod and stem blight<br><i>(Diaporthe spp.)</i><br>Soybean rust<br><i>(Phakopsora pachyrhizi)</i> | 10.5 - 21                     | <p>For all diseases except rust: Apply 14-21 fl oz/A at growth stage R3 (early pod set) when pods are 1/8 - 1/4 inch long) and 14 to 21 days later at growth stage R5 (pod fill). Applications may be made earlier if conditions are conducive to disease development.</p> <p>For soybean rust: Apply 14-21 fl oz/A at first indication that disease is in the area. Use preventively for best control. Repeat applications at 14- to 21-day intervals. Use higher rate and shorter application interval when diseases are present in the field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than 2% or if disease is in mid-canopy, control will not be acceptable. Scouting for the disease and/or being aware of the proximity of the disease via monitoring systems will aid in determining the proper application timing which will maximize the effectiveness of the fungicide.</p> <p>This product may cause crinkled, smaller, and/or greener leaves on certain varieties of soybean. A reduction in yield has not been observed in treated beans displaying these characteristics.</p> |
| <b>Notes:</b><br>This product is most effective when applied and allowed to dry before rainfall. Ensure thorough coverage for best results. DO NOT apply in less than 2.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions are not favorable for good coverage.<br>Apply this product by ground, air, or chemigation.  |                               |  |
| <b>Use Limitations:</b><br><ul style="list-style-type: none"> <li>♦ Do not exceed 42 fl oz/A of product per crop.</li> <li>♦ Do not exceed 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Apply up to Stage R6.</li> </ul>   |                               |  |



## STONE FRUIT

Apricot,; Cherry (sweet, tart); Nectarine; Peach; Plum; Plumcot; Prune; all Cultivars, Varieties, and/or Hybrids of these

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Alternaria spot and fruit rot<br><i>(Alternaria alternata)</i><br>Anthracnose<br><i>(Colletotrichum prunicola,</i><br><i>C. gloeosporioides)</i><br>Brown rot blossom blight<br><i>(Monilinia spp.)</i><br>Brown rot on fruit<br><i>(Monilinia spp.)</i><br>Cherry Leaf Spot<br><i>(Blumeriella jaapii)</i><br>Powdery mildew<br><i>(Sphaerotheca pannosa,</i><br><i>Podosphaera clandestina)</i><br>Rust<br><i>(Tranzschella discolor)</i><br>Scab<br><i>(Cladosporium carpophilum)</i><br>Shot hole<br><i>(Wilsonomyces carpophilus)</i>   | 14                            | <p><u>For brown rot blossom blight:</u> apply at early bloom. If disease pressure is low, a second application may be made as needed through petal fall. Under high disease pressure and/or for very susceptible varieties, treat at 50-75% bloom and petal fall if needed.</p> <p><u>For brown rot on fruit:</u> make a maximum of 2 applications at a minimum interval of 10 days during the preharvest period up to the day of harvest.</p> <p><u>For powdery mildew, rust, and cherry leaf spot:</u> follow the blossom blight schedule. Make up to 2 additional applications at 10- to 14-day intervals from the end of petal fall to harvest.</p> <p><u>For scab:</u> begin applications at petal fall and continue at 7- to 14-day intervals.</p> <p><u>For other diseases:</u> treat at onset of disease and repeat applications at 10- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product or other Group 11 fungicides before alternating with a fungicide that has a different mode of action</p> |
| <p><b>Notes:</b></p> <p>Stone fruit diseases are more effectively controlled by ground applications using sufficient water volume to provide thorough and uniform coverage. Aerial application (minimum of 15 gal./A) may be used if necessary but disease control may be reduced.</p> <p>Applications to Stanley plums during bloom may cause fruit to be less oval in shape and smaller in size at harvest. If any effects on the shape and size of Stanley plums is of concern to you, do not apply this product to your Stanley plums earlier than 21 days prior to harvest.</p> |                               |   |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 70 fl oz/A of product per season.</li> <li>♦ Do not exceed 0.56 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed 1.5 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 0 Day.</li> </ul>   |                               |   |

## SUGAR BEET

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions  |
|---|-------------------------------|---|
| Cercospora leaf spot<br><i>(Cercospora beticola)</i><br>Powdery mildew<br><i>(Erysiphe polygoni)</i><br><br>Rhizoctonia crown rot<br><i>(Rhizoctonia solani)</i>  | 14                            | Begin applications preventively or on a forecast system. For powdery mildew, apply at first sign of disease.<br>Make applications at 10- to 21-day intervals. Alternate applications of this product with a non-triazole fungicide (non-Group 3) that is registered for use on sugar beets for control of these diseases. If disease pressure is high, use the highest rate and shortest spray interval specified on the label.<br><br>For Rhizoctonia crown rot, apply 14 fl oz of product in a 7-inch band over the row at the 4- to 8- leaf stage. |
| <b>Notes:</b><br>For best results, use sufficient water volume to provide thorough and uniform coverage.<br>Apply by ground (minimum of 15 gal./A), air (minimum of 5 gal./A), or chemigation (apply in 0.1 - 0.25 inch of water/Acre). Using excessive amounts of water for chemigation may reduce efficacy of the product.  |                               |   |
| <b>Use Limitations:</b><br>♦ Do not exceed 42 fl oz of product/Acre per season.<br>♦ Do not exceed the equivalent of 0.34 lb propiconazole a.i./A per season from any propiconazole-containing product.<br>♦ Do not exceed the equivalent of 2.0 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI) = 21 Days. |                               |   |

## SUGARCANE

| Target Disease  | Use Rate<br>(fl oz product/A) | Application Instructions   |
|---|-------------------------------|--|
| Brown Rust<br><i>(Puccinia melanocephala)</i><br>Orange Rust<br><i>(Puccinia kuehnii)</i>   | 16 - 22                       | Begin applications prior to rust development and continue throughout the season at 14- to 28-day intervals. Scout fields and begin applications at the earliest sign of rust.<br>Apply by ground, air, or chemigation. |
| <b>Use Limitations:</b><br>♦ Do not exceed 88 fl oz of product/Acre per season.<br>♦ Do not exceed the equivalent of 0.8 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.<br>♦ Pre-harvest Interval (PHI) = 30 Days. |                               |  |

## TREE NUTS\*\*

**Beechnut, Brazil Nut, Butternut, Cashew, Chesnut, Chinquapin, Hickory, Macadamia, Walnut**

**\*\* See Crop Specific Use Directions for Almond, Filbert, Pecan, and Pistachio**

| Target Disease   | Use Rate<br>(fl oz product/A) | Application Instructions  |
|--|-------------------------------|---|
| Foliar Diseases  | 14 - 21                       | <p>Begin applications at first sign of disease and repeat applications at 7- to 14-day intervals.</p> <p>Do not make more than two (2) consecutive applications of this product before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of this product or other Group 11 fungicides per season.</p> <p>Apply by ground or air (minimum of 15 gal./A).</p> |
| <p><b>Notes:</b><br/>Apply by ground for best control of tree nut diseases.</p>  |                               |   |
| <p><b>Use Limitations:</b></p> <ul style="list-style-type: none"> <li>♦ Do not exceed 112 fl oz/A of product per crop.</li> <li>♦ Do not exceed the equivalent of 0.9 lb propiconazole a.i./A per season from any propiconazole-containing product.</li> <li>♦ Do not exceed the equivalent of 1.2 lb azoxystrobin a.i./A per season from any azoxystrobin-containing product.</li> <li>♦ Pre-harvest Interval (PHI) = 60 Days except for pecans (refer to crop specific directions for pecans)</li> <li>♦ Do not graze livestock in treated areas or cut treated cover crops for feed.</li> </ul> |                               |   |

### RATE CONVERSION CHART

| Fluid Ounces Product/Acre | Pounds of Azoxystrobin a.i. | Pounds of Propiconazole a.i. |
|---------------------------|-----------------------------|------------------------------|
| 7                         | 0.056                       | 0.06                         |
| 10.5                      | 0.10                        | 0.08                         |
| 14.0                      | 0.13                        | 0.11                         |
| 15.75                     | 0.15                        | 0.125                        |
| 17.5                      | 0.16                        | 0.14                         |
| 21                        | 0.19                        | 0.17                         |
| 26                        | 0.24                        | 0.21                         |
| 27                        | 0.25                        | 0.22                         |
| 28                        | 0.26                        | 0.22                         |

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE** Store in original container only in a cool, dry, and well ventilated area. Keep container closed when not in use. Do not store near food or feed.

**PESTICIDE DISPOSAL:** Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **"NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type/size."

#### [Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

#### [Nonrefillable containers larger than 5 gallons]

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### [Refillable containers larger than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product and return it unopened to the Seller, and the purchase price will be refunded.

(RV072613)

All trademarks that appear on this label which are not owned by Nufarm Americas Inc. or its subsidiaries are the property of their respective owners.



## INERT CLEARANCE STATUS FORM

|                                   |                  |              |                          |
|-----------------------------------|------------------|--------------|--------------------------|
| Reviewer Name: Wilkinson Unugboji |                  |              | Request Date: 08/29/2013 |
| Tel: 703-347-8518                 | ISB<br>ITRMD/ISB | CUBE: S-4813 | MAIL CODE: 7502P         |

**A. COMMENTS:**

|                |
|----------------|
| Issue Resolved |
|----------------|

**B. PESTICIDE PRODUCT INFORMATION:**

|                                    |                        |   |
|------------------------------------|------------------------|---|
| Receipt Number: 939963             | Date on CSF: 6/28/2013 | Food-Use Pesticide: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| EPA Reg. No/File Symbol: 228-TEE   | Formulation: Basic     |   |
| Product Names: NUP-12103 Fungicide |                        |   |

**C. INGREDIENT INFORMATION:**

| Ingredient No.1  | Tolerance Exemption(s) <sup>1</sup> |     |     |     |     |     |
|--|-------------------------------------|-----|-----|-----|-----|-----|
|  | 910                                 | 920 | 930 | 940 | 950 | 960 |
| Chem. Name:  |                                     |     |     |     |     |     |
| Trade Name: [REDACTED]   |                                     |     |     |     |     |     |
| CAS Reg. No.: [REDACTED]   |                                     |     |     |     |     |     |
| Comments: The trade name [REDACTED] is not found in the Agency's database. Please provide full compositional information including the manufacturer, constituent name, CAS numbers, and weight/weight percent composition (100% full composition). |                                     |     |     |     |     |     |
| Chem. Name:  |                                     |     |     |     |     |     |
| Trade Name:  |                                     |     |     |     |     |     |
| CAS Reg. No.   |                                     |     |     |     |     |     |
| Comments:  |                                     |     |     |     |     |     |

Reviewer Name: Wilkinson Unugboji

Review Date: 8/29/2013

<sup>1</sup>Language from the Code of Federal Regulations (40 CFR 180, subpart D):

40 CFR 180.910: Inert ingredients used pre- and post-harvest; 40 CFR 180.920: Inert ingredients used pre-harvest; 40 CFR 180.930: Inert ingredients applied to animals; 40 CFR 180.940: Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations; 40 CFR 180.950: Tolerance exemptions for minimal risk active and inert ingredients; and 40 CFR 180.960: Polymers.